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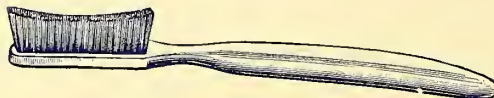
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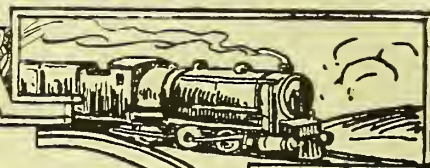
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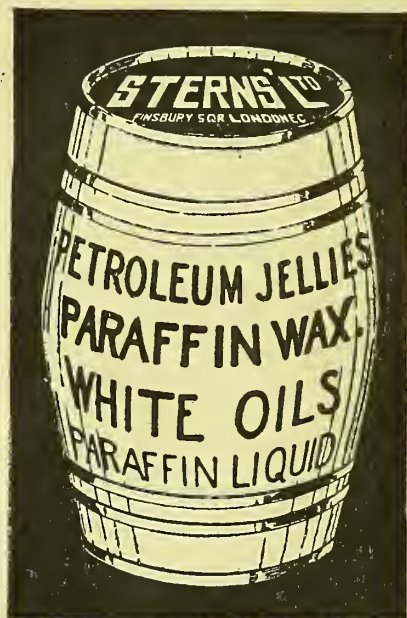
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And Soap Cases! We have a limited stock in aluminium; lift-off lids. 3/6 dozen; also nickel-plated lids, 18/- and 21/- dozen.

A card of Assorted Nurses' Instruments on the counter often leads to business. Why not try our popular 10/- card? It shows a good margin of profit.

Check Sponge Bags. A Job Line, all in good condition. Special value series in four sizes: No. 1, 6/-; No. 2, 7/6; No. 3, 9/-; No. 4, 10/6 dozen.

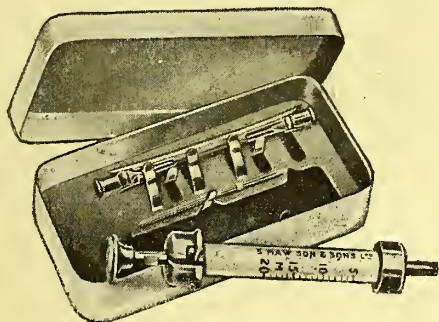
"Parex" Hot Water Bottles: Watch Maw's Page.

The Record Hypodermic Syringe.

Medical men are *always* interested in professional requisites, such as the Record Syringe. This is an entire "Maw Made" production, English throughout. Hand-ground glass barrel. Accurately-fitting solid metal plunger. Nickel-plated mounts. Each supplied with 2 finest quality needles. Complete in nickel-plated case.

20 mm. 9/6 ... 2 cc. ... 11/6	10 cc. ... 16/6
1 cc. 9/6 ... 5 cc. ... 12/6	20 cc. ... 21/-

Record Needles, from 8/6 dozen.



PURE CHEMICALS for PHOTOGRAPHY

AMIDOL	1-lb. tin 21/-, 7 @ 20/6
HYDROKINONE	lb. pcls. 16/6 „ 16/4
PARAMIDOPHENOL	1-lb. tin 17/6 „ 17/3
PYROGALLIC . Cryst. „	15/- „ 14/9
Resub. „	18/- „ 17/9

Acid Citric, Alum, Ammon. Bromide, Ammon. Sulphocyanide, Ferr. Ammon. Cit., Pot. Bromide, Pot. Ferricyanide, Pot. Citrate, Pot. Metabisulph., Pot. Oxalate, Soda Bromide, Soda Carb., Soda Hypo., Soda Sulphide, Soda Sulphite, etc. etc.

At low prices. Packed in bulk or bottles

CHAS. ZIMMERMANN & CO.
(Photographic) LTD.

13 BARTLETT'S BUILDINGS, LONDON, E.C. 4

Monthly List mailed on request.

LLOYDS BANK LIMITED,



with which is
amalgamated

THE CAPITAL & COUNTIES BANK, LTD.

HEAD OFFICE: 71, LOMBARD ST., E.C. 3.

**OVER 1,300 OFFICES IN ENGLAND
AND WALES.**

AFFILIATED BANKS:

THE NATIONAL BANK OF SCOTLAND, LTD.

Head Office: EDINBURGH.

124 Branches in the principal Cities and places in Scotland.

THE LONDON & RIVER PLATE BANK, LTD.

Head Office: 7, PRINCES ST., E.C. 2.

30 Branches in Argentina, Brazil, &c., Paris, New York & Lisbon.

FRENCH AUXILIARY:

LLOYDS BANK (FRANCE) AND

NATIONAL PROVINCIAL BANK (FRANCE) LIMITED.

WESTMINSTER COLLEGE.

APRIL EXAMINATION.

Students presented, 14. Passed in Practical Work, 11. Passed in Theory, 10.

NEXT FULL-TIME COURSE for MINOR EXAMINATION OCTOBER 1st.

Revision Course, August 20th.

For Prospectus and Pass Lists apply THE PRINCIPALS, 190 Clapham Road, LONDON, S.W. 9.

LONDON COLLEGE OF PHARMACY

Lecturers { HENRY WOOTTON, B.Sc. (Lond.)
CHAS. W. GOSLING, Ph.C.
CHAS. MORTON, Ph.C.
Assistant Demonstrator: J. NIXON.

COURSES of Instruction provided for students preparing for examinations in Pharmacy, Chemistry, &c.

Terms begin on the following dates for which entries may now be received.

Minor New Full Course, September 30th.

Revision Course—August 13th.

Apothecaries' Hall—August 13th.

For Prospectus, &c., apply to the Secretary:

LONDON COLLEGE OF CHEMISTRY & PHARMACY,
361 Clapham Road, London, S.W. 9.

—GET MORE RESULTS—

from your advertisements by making them attract more attention. A good illustration well displayed doubles the pulling power of your advertisement.

Business—bringing blocks can be supplied to help the sale of your Salines, Remedies, Toilet Specialities, Photographic and Optical Goods.

Send a label of your best speciality and we will send suitable illustrations of Blocks to advertise it. Be the first in your town to apply.

CHEMISTS' DESIGN SERVICE,

12 Humberstone Gate, LEICESTER.



Illustration
D 15, 3/2
Double Size,
D 68, 3/7.

There are many cheaper Creams than Tokalon
— but your Customers don't want them.
There may be better Creams than Tokalon
— but just try to find them!

CRÈME TOKALON



PRICES 1/3 & 2/-

With the help of our advertising, you, Mr. Chemist, have to sell Tokalon cream and powder to your customer the first time, but from then onward they sell themselves. After once testing these remarkable products the customer will not feel satisfied with any others.

Why is it that Mme. Bernhardt finds Tokalon Cream so different from all others?

Crème Tokalon imparts marvellous beauty to the complexion because it contains buttermilk and other skin-preserving and nourishing ingredients found in no other Cream.

COMPLEXION PERFECTION
is merely a matter of using
**CRÈME
TOKALON**
(Pronounced Toke-a-lon)



What Mme. Sarah Bernhardt says about

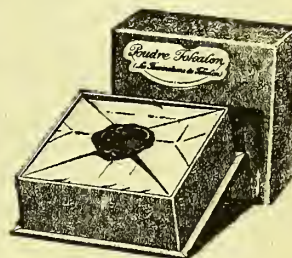
CRÈME TOKALON & POUDRE TOKALON.

One of the hardest of workers and subject to a constant and far greater nervous strain than falls to the lot of most women, this wonderful artiste possesses a complexion which is the envy of many women half her age. As a regular user of our cream and powder for many years. Mme. Bernhardt has written us a letter of which the following is an exact translation:—

"I appreciate Crème Tokalon for its surprising qualities in rejuvenating the skin and rendering it soft and supple. I love very much the Poudre Tokalon because it adheres so well and is so extremely fine. A light application of this powder over Crème Tokalon gives to the skin an astonishing appearance of youth and an exquisite velvety surface."

Sarah Bernhardt

POUDRE TOKALON



PRICES 1/9 & 2/11.

In compressed form
(Comprimés) 1/3 each.

Our goods, bought on
best terms, Show you
66 2/3% Profit on your
Outlay.

Strong and attractive
show-cards of proven
selling power sent free
on request.

CARRIAGE PAID
ON ALL ORDERS.

Why it is that
Mme. Bernhardt
finds Poudre
Tokalon so dif-
ferent from all
others.

The extreme fine-
ness of Poudre
Tokalon, as men-
tioned by Mme.
Bernhardt in her
letter, is produced
by the 'air-floating'
process which we
use exclusively in
manufacturing the
powder.

YOU SHOULD ALWAYS KEEP THESE TWO QUICK-SELLING LINES IN STOCK.

TOKALON LIMITED, 212-214, Great Portland Street, London, W.

SAVE 3/- PER GALLON BY BUYING GUARANTEED GENUINE NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL"

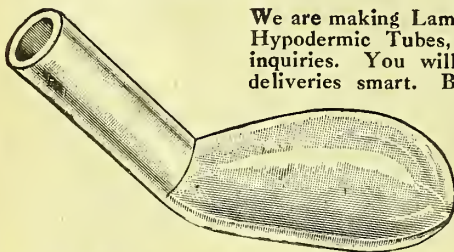
Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F.

Established 1780.

JULES LANG & SON

Sole Proprietor :
FERNAND RENE LANG



We are making Lamp-blown Glassware, such as Ampoules, Hypodermic Tubes, &c., in England. Let us have your inquiries. You will find our prices competitive and our deliveries smart. Besides, we also have varied stocks of Glass Bottles.

Send us your inquiries and ask for our Stock List.

Telegs.: "Assorted, Phone, London."
Telep.: North 2770
(3 lines).



Dropping Bottle.

Chareton Works, Charlton Place, ISLINGTON, LONDON, N.1.

PLATE
&
SHEET

GLASS

OF
EVERY
Description.

*Plate Glass with Polished
Edges for Surgical Tables, &c.*

GLASS SHELVES, MIRRORS, &c.

Bevelling, Polishing, Silvering, Glazing, &c. &c.

**JOHN
M.**

**NEWTON & SONS,
LTD.**

20, 21, 22 & 23 Charles St., Hatton Garden, London, E.C.1

Grasshopper OINTMENT AND PILLS

Protected at Face Value by P.A.T.A.

These remedies have been before the public for upwards of fifty years, and ARE STOCKED by all the leading WHOLESALE HOUSES throughout England and the Colonies.

During the last three years our expenditure in ADVERTISING has been TREBLED.

Our turnover has also TREBLED, and MAIL ORDERS have multiplied TENFOLD.

MAIL ORDERS we do not desire, they entail additional labour without extra profit, and indicate that our goods are not stocked by the RETAIL CHEMIST, sales thus being undoubtedly lost.

To obviate this, if YOU WILL stock our goods WE WILL indemnify you AGAINST LOSS by accepting returns direct at our warehouse and PAYING for same by return post at invoice price PLUS cost of postage or carriage.

ALBERT & CO., 73 Farringdon Street, LONDON, E.C. 4

Sink or Swim !



Sink or Swim is the problem that faces the student of the natatorial art.

The "Holiday" Water Wings solve the problem on the Swim side—they give that little bit of confidence that makes all the difference.

The "Holiday" Water Wings are made to wear, and are in the modern shades: Vieux Rose, Salmon, Electric Blue, Lilac, Aquamarine; each in envelope, with directions.

Our machinery is working full time, and we are able to give prompt deliveries.

PRICES ARE:

Per doz. 16/6; 1 doz. lots, 16/3; 5 gross lots, 16/-

**More people are
learning to swim.**

**Why not the
"Holiday" way?**

AYRTON, SAUNDERS & CO. LTD.
LIVERPOOL

THE HOLOYD PAGE.

Summer will soon be Here

and your stock will not be complete without three quick-selling Holoyd Summer Lines.

(1) Holoyd Lemonade Powders

No sugar required.

1½d. Packets	-	-	13/-	per gross.
2½d.	„	-	22/6	„
4½d.	„	-	40/-	„

5 gross lots less 5 %

10 gross lots less 10 %

(2) Holoyd Lemonade Tablets

7 tablets in glass tube, each tablet sufficient for one glass delicious lemonade. No sugar required.

Retail 6½d. per tube.

4/6 per doz.

6 doz. at 4/3

12 doz. at 4/-

(3) "FACENA" A Vanishing Face Cream which really Vanishes.

Packed in 1-oz. screw-cap glass jars. Attractively labelled. Minimum retail, 9d.

5/- per doz.

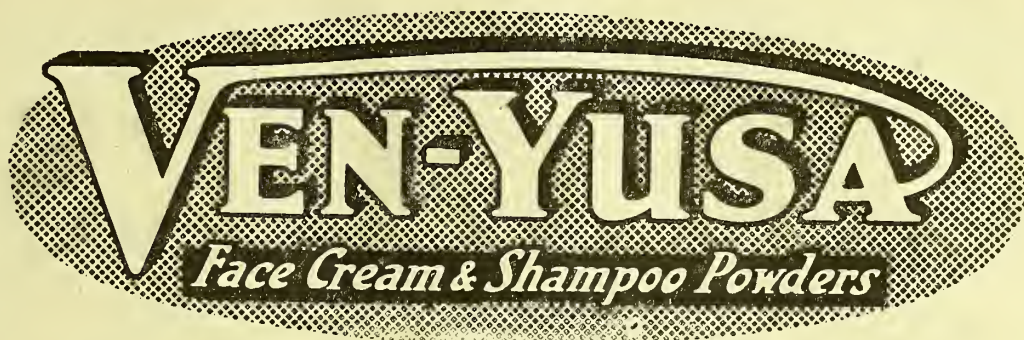
6 doz. at 4/3

12 doz. at 4/-

Attractive Showcards and Posters for all Lines.

H. O. LLOYD, *Wholesale Manufacturing Chemist,*

THE HOLOYD LABORATORIES,
27 GREEN LANE, SMALL HEATH, BIRMINGHAM.



SPECIAL WINDOW-SHOW OFFER

YOU purchase an assorted parcel of Ven-Yusa Cream Soap, and Shampoo Powders value	£2 10 0
WE allow you for Showing Cards	0 5 9
Net Credit Terms	£2 4 3
IF CASH ENCLOSED deduct 2½ per cent. ...	0 1 3
Net amount to send	£2 3 0

YOUR PROFIT on the Investment will be 50%

Larger Orders are accepted on pro-rata terms, 2½ % extra allowed
on orders of 12 times above quantities, if cash with order.

MINIMUM PRICES FACE VALUE.

ORDER FORM.

To Messrs. C. E. FULFORD, LTD., Carlton Hill, LEEDS.

Date

Dear Sirs,

Please supply on Window-Show Terms—

.....Gross.....Doz. 1/- size Ven-Yusa Cream	...	@	9/3 doz.	£ s. d.
.....Gross.....Doz. 6d. ,, ,, Soap	...	@	4/6 ,,	
.....Gross.....Doz. 1/6 ,, ,, Shampoo Powders	13/6 ,,			
	(7 3d. Shampoos in packet)			
.....Gross.....Doz. 3d. packets ,, Shampoo Powders, 22/- gross				
	(6 doz. Cartons only)			

Remittance enclosed £ : : £

Name and Address

MINIMUM PRICES FACE VALUE.

Note.—If Cash does not accompany order, references should be
given for New A/cs. **Credit Terms are Strictly Net, 30 days.**

FINEST **BLACKS** AND
COLOURS

(ALL SHADES)

CARAMEL
COLOUR
 IN POWDER.

~~~~~

**Guaranteed**  
**Harmless.**

~~~~~

50

times the concentration
 of Liquid Caramel.

Sample on application.

Soluble in

WATER	SPIRIT
OIL	TURPS
WAX	BENZOLINE
GLYCERINE	NAPHTHA
PETROLEUM	CREOSOTE

and

IN FACT—ANYTHING.

BLACK FOR INK.

MARKING INK.

ETERNITE

A combined Stain and
 Preservative for Wood.

HOUSEHOLD DYES.

RHEUMSOL BATH SALTS

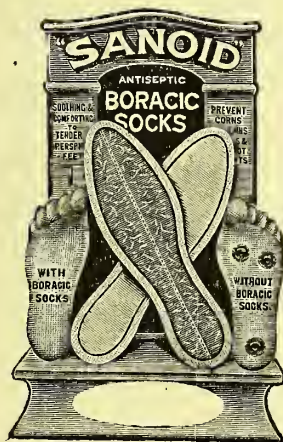
in 1/- Tins.

WILLIAMS BROS. & CO.

Hounslow, Middlesex.



“SANOID” Boracic Socks



Facsimile of Showcard.

Many Chemists have enjoyed the ready Sale of
Boracic Socks which literally

SELL THEMSELVES

7/3 per dozen pairs.

84/- per gross pairs.

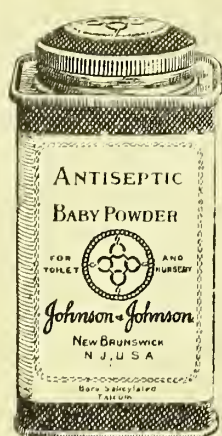
ON P.A.T.A. LIST.

Retail price **10½d.** per pair.

Sample Pair post free on application.

CUXSON, GERRARD & CO. LD.
OLDBURY, near BIRMINGHAM.

Export and Colonial inquiries specially invited.



ANTISEPTIC BABY POWDER

MANUFACTURED BY

Johnson & Johnson.

We wish to warn our Customers, so that they may be on their guard, that our package is being imitated. This step, which is so easy, is an undignified and shabby attempt to rob us of our goodwill.

WARNING.

The contents cannot be imitated,
and the Trade Mark cannot be
imitated; and we would ask
those Customers who have

handled this preparation for a quarter of a century, with every satisfaction to themselves and to their clients, to resent this method of copying other firms' productions by insisting on having the original package bearing the registered Trade Mark, which is the guarantee of quality.

**Look for the
Name and
Trade Mark.**

JOHN TIMPSON & CO., Ltd.,
104 Golden Lane,
LONDON, E.C.



These Press announcements are telling of Movol's magic power

Thousands of ladies—some of them are your customers—are reading these advertisements and learning of Movol's magic power over linen stains. They're sure to buy because this "household magician" cuts down the new linen bill by making ugly stains disappear. They will come to you for Movol for they are being told that it is sold by Chomists everywhere. Here's a quick seller with a liberal profit. Have you got your stock ready?

Mail a postcard now if you haven't, for trial stock and display material to—

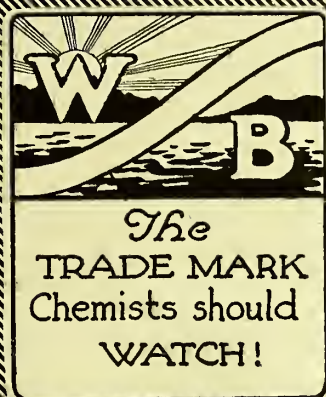
W. EDGE & SONS, Ltd., Bolton.
(*The Drummer Dye people*).



STAIN REMOVER

Removes Ironmould, Rust, Fruit and Ink Stains from Clothing, Marble, &c.

WHITE BAND MFG CO LTD



A NEW DEPARTURE

The demand for White Band Lines is created by advertising in Journals, Newspapers, etc & by the co-operation of the Chemist in giving window display. In return for this we give bonuses which leave a profit averaging 100%

Write for List

SNOWLEEN
ZOKO Tooth Paste
KARMOL Shampoo

Oxygen Tooth Powders
Carbolic Tooth Powders
Lanoline

Boracic Ointment
CHAPPA

Chilblain Ointment
Dazzla Hat Cleaner

VERM-KIL
PEDAKOL Foot Balm

Nursery Pomade

White Band Mfg Co Ltd
Croydon, Surrey.

12/- or 36/-

Which will you have ?

Ten or twelve shillings — or less — sellin' a gross of ordinary Shampoo Powders, or 36/- selling a gross of "Quin-Quenna."

Ten or twelve shillings in weeks, or thirty-six shillings in days; because good advertising of this dependable line quickly sells "Quin-Quenna" for you.

Quin-Quenna

yields 36/- per gross.

Is advertised regularly in all Leading Papers.

Each announcement says, "Go to your Chemist," and people go, and keep on going, because "Quin-Quenna" does all that is claimed for it. It is not a shampoo, but a preparation made from refined oils and herbs and fine Castile, which going through secret treatments finally graduates into wonderful little granules that dissolve in hot water and becomes at once:

A HAIR CLEANSER
A HAIR BEAUTIFIER
A HAIR GROWER.

NEEDS ONLY SHOWING TO SELL.

"Quin-Quenna" needs only showing to sell. It is daintily packed and ribboned, and put up in special twin-lidded display boxes, with splendid advertising material free.

P.A.T.A. 6d. Each.

Price 48/- per gross, 1/2-gross boxes. 2 dozen Bonus.



This Coupon is worth 18/- to you.

Attach it to your memo, or card, affix 1/2 t. stamp, and

POST IT NOW.

Send me carriage paid by return special display "Quin-Quenna" Box containing 1/2-gross boxes, 1 doz. Bonus, and free advertising material. CHRISTY'S, London, E.C. 4.

CHRISTY'S,

Old Swan Lane, London, E.C. 4.

KO-TAL-KO

IS ASKED FOR EVERY DAY
BY YOUR CUSTOMERS

Stock "KO-TAL-KO" because

You cannot offer or sell a more effective hair restorer and maintainer—one more natural in its principles and certain in its effects.

Your regular customers will want it from you, and if they do not obtain it at your store will be tempted to go elsewhere.

You will never have your stock of "KO-TAL-KO" tying up your capital uselessly—on the other hand, your repeat orders quickly follow.

My trade terms will suit you, for they allow you to make your proper and deserved profit, and you are working on sound business all the time.

NOTE TRADE TERMS (P.A.T.A.)—

5/- Size	...	...	...	48/- per dozen
12/6 "	...	...	...	112/6 "

J. HART BRITTAIN, Ltd.

(Dept. C.D. 1).

2 PERCY ST., LONDON, W.1

KO-TAL-KO

SALES BEAT ALL RECORDS.

INDIAN PERFUME BRICK

KEEPS AWAY MOTH.
LASTING & FRAGRANT.



FOR LINEN CUPBOARD AND WARDROBE.

Retail Price, 6d.

Of the Makers:

ALBERT WILLIS & ARTHUR, Ltd.

6 Mortimer St., London, W.

AND ALL WHOLESALEERS.

**LABORATORY
OF GENERAL PHARMACOLOGY,
8, Rue Vivienne, Paris.**

**LONDON AGENTS:
WILCOX, JOZEAU & Co., 49, Haymarket; S. W.**



**CHAPOTEAUT'S
CAPSULES of
PHOSPHOGLYCERATE
of LIME.**

**THE BEST TONIC FOR
FORTIFYING AND BUILDING UP
THE NERVOUS SYSTEM.**

*Sold by all Chemists,
Wholesale: 8, Rue Vivienne,
PARIS.*

MORRHUOL CHAPOTEAUT



CAPSULES

MORRHUOL DE CHAPOTEAUT
is extracted from cod-liver oil, and
contains all its efficacious prop-
erties without the disagreeable taste.

*It cures Coughs, Bronchitis and Catarrh,
restores the appetite, and gives force to
feeble persons.*

SOLD BY ALL DRUGGISTS.

**CHANDRON'S
DROPS**

(Gouttes des Colonies)

**A harmless antiseptic
preventative against CHOLERA-
FERMENTATION - INDIGESTION
and other intestinal disturbances.**

SOLD BY ALL CHEMISTS

*I find the Nivea, especially and
not in perfume is perfectly
by my Nivea. Very Superior
W. J. J. J.*

**PARFUM
MARY
GARDEN**

RIGAUD
PARFUMEUR
16, RUE DE LA PAIX,
PARIS.

**LONDON AGENTS
HEPPELL & CO., 164, Piccadilly, W.**

An excellent
Window Display

SUTTLEY and SILVERLOCK'S

Will make many
— Customers —

SEASON SPECIALITIES

1000 ENVELOPES,
with Name and Address,
A SHOWCARD (15 × 7),
2 WINDOW CARDS,
and
FORMULA,
for

37/6

○○○

Striking Designs.

○○○



Printed
in Black
and
Emerald
Green.

ORDER NOW.



Printed
in Black
and
Orange.

SAMPLES BY
RETURN OF
— POST. —



BLACKFRIARS ROAD, LONDON, S.E.1.

SAFETY RAZOR SHARPENING

BY LATEST ELECTRICAL MACHINERY.

We guarantee a perfect edge on ANY blade, ANY make.
Trade terms : 6d. PER DOZEN net.

Blades returned same day as received.

SEND US YOUR WORK.

THE LIVER RAZOR CO., 77a DALE STREET, LIVERPOOL.

Essential Oils & Crude Products
for Confectioners. M. GILBERT, VINCENNES,
Near PARIS.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.
FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY CO. LD.

The Largest Makers in the Kingdom.

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office : 4 India B'ngs, Water St., Liverpool.

PURE ORANGE WINE
A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.
London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.3.

(Wholesale only)

TERPENELESS OILS

BRITISH MADE.

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the World.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)

Bay

Bergamot

Caraway

Cassia

Cinnamon

Clove

Dill



Geranium

Ginger

Juniper Berry

Lavender

Lemon

Limes

Mandarin

Nutmeg

Orange

Peppermint

Petitgrain

Rosemary



CINNAMIC

ALDEHYDE

GERANIOL

CITRAL

EUCALYPTOL



HOLLANDS DISTILLERY, Ltd.

Lavington Street, Southwark, London, S.E. 1.

A B C Code (5th Edition),
Western Union.

Telegrams: "LANDSLOH LONDON."
Telephone: HOP 898.

AMERICAN AGENTS—O. A. BROWN CO. INC., 99-101 Beekman St., New York.
CANADIAN AGENTS—F. S. JARVIS & CO., 18 Toronto Street, Toronto.

Lescol Perfumery

NOTICE.

New and attractive lines will be brought out shortly, and an illustrated catalogue sent out. In the meantime we will send on application a supplementary list of lines in stock, popular in price and advantageous in sale.

We can also offer to advantage Perfumery in Bulk in two qualities — Essential Oils of guaranteed purity; Floral Ottos for Cachous, &c.; Fruit and Soluble Essences, Chemicals, &c.

THE LONDON ESSENCE CO., Ltd.

(Proprietors of THE LESCOL PERFUMERY CO.)

Lomond Grove, Camberwell, LONDON, S.E.5.

Telephone: 810 HOP.

Telegrams: "VANILLIN. CAMBER, LONDON."

LOFTHOUSE & SALTMER, Ltd.

Wholesale and Export Drug Merchants,
— Manufacturing Chemists —

HULL.

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	P.A.T.A.	Protected Retail Price.	Dozen Net
* LOSALL'S SALT (well advertised), tins	9d.		6/6
* " " " " " " "	1/6		13/-
* " " " " " " "	bottles in } 2/-		16/-
	cartons		

** Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.*

LOSALL'S COMPOUND SULPHUR SOAP.

	Box.	Doz.
A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box for 8d.	2/-	18/-

BRITISH ODOL



Send for Price
List and Trading
Terms.

*Revised
Retail Prices.*
**Grand Double
Flask**
5/3
Full-size Bottle
3/-
Half-size Bottle
1/9

ODOL
Chemical Works,
BERKHAMSTED.

C.V. & S. 12.

"Strodonia"

VANISHING CREAM

For displaying a small showcard, we make the following offer on INITIAL DIRECT ORDERS (One parcel only):—

1 $\frac{1}{3}$ dozen 7½d. selling for 11 3
" 1/- " " 9 0

For 10/- cash with order, carriage paid. 20 3

7½d. and 1/- " " 5/6 and 9/- per dozen.

From London Wholesalers.

Direct Orders value £5 subject to 10% discount and 1 doz. 1/- size bonus for window display, showing 38% on Turnover.

STRODE COSH & PENFOLD, Manufacturing Chemists, LOWER UNION ST., BRISTOL.

For Delicate Skins.

Eudermine Cream at 2/6 per bottle.
Eudermine Face Powder

at 2/6 per box.

Obtainable at all Chemists and Stores.

Manufacturers:

EUDERMINE CO. LTD., 79 Coleman Street, London, E.C. 2

JULES LANG & SON

WE HAVE LARGE STOCKS OF

TOOTH BRUSHES

Small stock of Military Hair Brushes.

Samples will be sent on application.

Wholesale trade only supplied.

NOT Retail.

Charlton Works, Charlton Place

Telegrams: "Assorted, Phone, London."

ISLINGTON, LONDON, N. 1.

Telephones: North 2770 (3 lines)

"Less than a drop
is sufficient"

Zenobia Condensed Perfumes are so highly concentrated that less than a drop is sufficient to give a lasting yet delicate fragrance.

But how can one apply "less than a drop?" By momentarily inverting the bottle and then lightly touching the article to be perfumed with the moistened stopper. The ordinary stopper found with Zenobia Condensed Perfumes is much more economical than the rod stopper, which applies more perfume than necessary.



The Retail Prices are 3/-, 6/- and 12/6 per bottle.

Trade Prices are 27/-, 54/- and 108/- per dozen, less usual discount

ZENOBIA

CONDENSED PERFUMES

This explanation, given at the time of sale, will assist in establishing Zenobia Condensed Perfumes as favourites with the public. Besides being so economical, they have the true flower fragrance always associated with the name of Zenobia—a fragrance that is unequalled for purity and charm.

ZENOBIA, Ltd. Wholesale, Manufacturing and Export Perfumers.
LOUGHBOROUGH, ENGLAND.

Manicure your Finger Nails with
Redio
TRADE MARK

Finger Nail Cloths.

They give a brilliant, lasting polish without pumice, dust, or grease. Beautiful finger nails give the finishing touch to a cultured hand.

Of all Chemists, Hairdressers, etc.

Prices:
6d. and 1/-



The REDIO CO. specialises in impregnated cloths.

Try the celebrated Redio Metal Polishing Cloths.

REDIO CO., Ltd., 66 Fore St., London, E.C. 2.



PETROLEUM JELLIES

White, Yellow, Amber and Red.

For Pharmaceutical and General Purposes.

AMERICAN SPIRITS OF TURPENTINE,
OLIVE, CASTOR, COLZA OILS,
ROSIN, and LUX BLOOMLESS MINERAL OILS.

James Arnott & Sons, Ltd.

Newcastle-on-Tyne and Cardiff.



METHYLATED SPIRIT

OILS AND CHEMICALS.

Buy from one of the Oldest Houses in the Trade.
Write for Prices. ESTABLISHED 1794.

SAMUEL THORNLEY, LTD., BIRMINGHAM

PETROLEUM JELLY

ALL GRADES.

GUMS. WAXES. DEXTRINE.

W. M. Kidston & Co., 43/45 Great Tower St., London, E.C. 3.

Telegrams: "KIDSTONISM, BILGATE, LONDON."

Telephone: AVENUE 8057.

BE SURE AND ADD

La-Rola

Rose Bloom

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the
"Daily Mail," "Mirror," "Sketch," etc.

**Do not lose the business
through being out of stock.**

It is the most natural tint on the market,
and is selling well wherever introduced.

Lait La-Rola & Glycerine & Cucumber
supplied as usual.

All these articles are protected at FACE VALUE.
Write for Display Terms and save 10%.

M. BEETHAM & SON, Cheltenham.

"PREPARATIONS"

*of which the Muller Nutrient is a very good example
may legitimately be described as 'Nature Remedies.'
These will no doubt have an important place in
Therapeutics, and hold out much hope and promise
in the future of medical practice.'*

—THE MEDICAL TIMES, August 18, 1917.

THE

MULLER NUTRIENT

SELLS AT 3/- P.A.
FACE VALUE T.A.

Direct Cash Orders 28/6 dozen
with 2 Showcards.

The Muller Laboratories,

Scientific Food Specialists, LTD.

144 Albany Street, LONDON, N.W.

BIDWELLS' LTD.

RELIABLE TOOTH BRUSHES.

Gloria Silverdrawn, 18/-

Mitre - - - 14/-

Elephant - - - 12/-

Anchor - - - 10/-

GROSS LOTS NAMED FREE. CARRIAGE PAID.

*We invite you to try them.
We guarantee satisfaction.*

A selected £10 parcel of Hair Brushes
from 30/- to 100/- per doz., carr. paid.

Made at our Factories, AXMINSTER, DEVON.

"TOWER" EARTHENWARE FILTERS

Sizes from 1 Gallon to 10 Gallons.

Specially suitable for
**ACIDS, ESSENCES,
AND
PHARMACEUTICAL
PREPARATIONS.**

**"FARJAK" ASBESTOS
FILTERING MEDIUMS**

for use with the above—Pure and
Neutral.

**Filling, Corking, and
Capsuling Machines.**



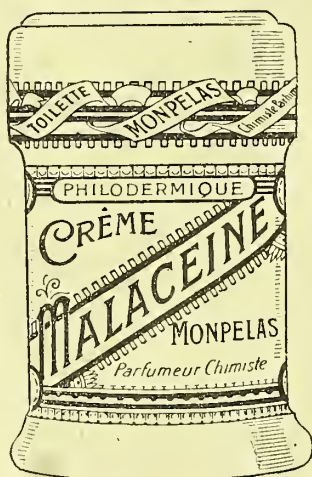
FARROW & JACKSON, LTD.

ESTABLISHED 1798,

16 Great Tower St., LONDON, E.C. 3.

CRÈME MALACEINE

MANUFACTURED BY
PARFUMERIE MONPELAS,
PARIS.



No. 62	63	64
Small.	Medium	Large
15/-	30/-	50/-

doz.

*An Extensive Advertising
Campaign in all the
principal Society Journals
is now proceeding.*

Write for SPECIAL TERMS and
particulars of other MALACEINE
PRODUCTS to the Sole Wholesale
Agents for Great Britain and Ireland:

WILLIAM TOOGOOD, LTD.
77 Southwark Street,
LONDON, S.E. 1.

D.D.D. Prescription

FOR ALL SKIN & SCALP DISEASES

A well-advertised, high-grade preparation, enjoying
a steadily increasing sale. On the P.A.T.A. pro-
tected list, giving the retailer a profit of about 25%.

TRADE PRICES.

D.D.D. Prescription	2/9 bottle,	M.R.P. Face Value,	per doz. @ 25/6
"	5/-	"	" 47/-
In two strengths—Ordinary and Strong.			
D.D.D. Soap	... 1/- tab.	M.R.P. Face Value,	per doz. @ 8/3
" Shaving Soap	... 1/6 stick	"	" 13/6
" Vanishing Cream	2/6 jar	"	" 22/6
" Shampoo Powders	2/6 box	"	" 22/6

Carriage paid to any part of the United Kingdom.

Showcards, &c., Supplied Free.

D.D.D. Co., Ltd.
3, 5, 7 Fleet Lane, Ludgate Circus, London, E.C. 4

**OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)**
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent
demand, created entirely on its own
merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	... 1/-	... 7/6	} per doz. less 5% discount.
1/6	... 1/6	... 9/-	
2/6	... 2/6	... 15/-	
3/6	... 3/6	... 21/-	

SPECIAL BONUS

Buyers of 3 doz. bottles receive 3 bottles
gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.

Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most
general demand, viz. 1/6 size, to 4/6, 12/- and
27/- respectively.

SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN,
DEVON WHARF,
Emmott Street, Mile End, London, E. 1.

"Vaseline"

Trade Mark Registered

PREPARATIONS.

Blue Seal, No. 1 size 1 gross boxes	-	34/- per gross.
" " " $\frac{1}{4}$ " "	-	36/- " "
" " 2 1 doz. "	-	5/- per doz.
" " Pomade in 1 gross boxes, screw cap	-	40/- per gross.
" " " $\frac{1}{4}$ " " "	-	41/6 " "

Chesebrough Mfg. Co. (Cons'd.), 42 Holborn Viaduct,
LONDON, E.C. 1

Complete Price List of all the "Vaseline" Preparations will be sent post free on application.

WE ADVISE YOU TO STOCK OUR "MOOVIT" CORN PENCILS

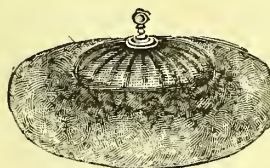
which are being extensively advertised. This continual advertising, proven merit, and satisfied customers, have created a steady demand. We furnish attractive showcard and window bills. Why not keep a supply and profit by the easy sales created?

Try a sample dozen 10/-; sells at 15/-

which gives you a very handsome profit, and is on the P.A.T.A.

Cash with Order. All goods are carriage paid. The time to order is now, while you have the matter before you.

TALBOT WILSON,
20 HIGHGATE ROAD, LONDON, N.W. 5



Solport Bros. Ltd.

184 to 190 Goswell Road, LONDON, E.C. 1
and at 1 LEVER STREET, E.C. 1

Manufacturers (Wholesale and Export) of

Druggists' Sundries & Toilet Accessories

INVITE INQUIRIES for their
recently issued

**PRICE LIST of
Powder Puffs,
Toilet Chamois,
ETC.**

from Buyers not on their Mailing List.

Ingram's MILKWEED CREAM

Has been CONSISTENTLY ADVERTISED in the best AMERICAN and CANADIAN PERIODICALS for twenty-five years.

A Medicinal Toilet Cream with a world-wide demand that is rapidly increasing. Two sizes: 2/-, per dozen 16/-; 4/-, per dozen 32/-

Prepaid Parcel Post to Great Britain and her Asiatic and African Colonies. Samples and store displays free with every order.

Introductory Offer. Cost £2; Retails 60/-—Profit 20/-.

1/2 Doz.	Ingram's Milkweed Cream	...	...	Retails 2/-	Price 8/-
1/2 Doz.	"	Velveola Souveraine (Face Powder)	"	2/-	" 8/-
1/2 Doz.	"	Zodenta Paste for the Teeth	"	1/-	" 4/-
1/2 Doz.	"	Rouge, Light, Medium, Dark	"	2/-	" 4/-
1/2 Doz.	"	Perfume, 1 oz. assorted in fancy packages	...	4/-	16/-
					£2

100 Guest Room Packages free.

Shipped via Parcel Post Prepaid.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, inviting them to call at your store and get our Guest Room Package free, containing one each of the above in sample sizes, including Perfume.

If more convenient to you, specify shipments from our Canadian Plant.

FREDERICK F. INGRAM COMPANY (Established 1835),
411 Lafayette Boulevard, Detroit, U.S.A. Canadian Plant: Windsor, Ont.



Twenty-five years' continuous advertising has made this trade mark known wherever American and Canadian publications are read.

IMMEDIATE DELIVERY

GATES' BOTTLE CAPPING SKINS



SNOW-WHITE OPAQUE ROLLED SKINS.

SOMETHING QUITE NEW. These Skins are damp and READY FOR USE. The raw material for Baudruche manufacture being now unobtainable, I have put this new production on the market in its place. ABSOLUTELY AS OPAQUE as Split skins and equal in appearance.

"Mine beat all others," *Sole Pioneer and Only English Manufacturer:*

LESLIE GATES HAILSHAM, SUSSEX.

Another New Speciality.—Try my **TRANSPARENT SHEEP BAUDRUCHE CAPPING SKINS.**



ALSO GOLDBEATER'S SKIN FOR MEDICAL PURPOSES.

THE CHEAPEST & MOST EFFECTIVE CAPPING EVER PRODUCED.



BOTTLE up your WRATH
at the shortcomings of ordinary cappings, and cap the bottle with a **SEMREH BOTTLE CAP**
YOU WILL HAVE NO MORE TROUBLE!
Details from **The VISCOS Development Co., Ltd., BROMLEY, KENT.**

'Ongard'

Guarded Coil



Safety Pins RUST PROOF.

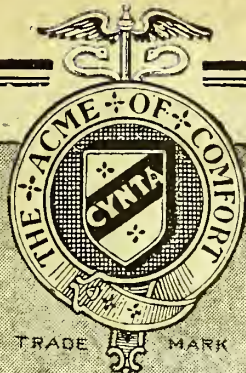
For Surgical & Nursery Purposes.

SOLE MANUFACTURERS

GEORGE GOODMAN LTD., BIRMINGHAM.

Stocked by **JAMES L. HATRICK & CO. LTD.,**
70 St. John St., Clerkenwell Rd., LONDON, E.C.1.

Antiseptic.



Absorbent.

“**CYNTA**”
HYGIENIC TOWELINES
 FOR LADIES

SEAMLESS KNITTED

ELASTIC COVER

NON-STRETCHING

WOVEN COVER

(BLUE LABEL)

OR

(BROWN LABEL)

GUARANTEED ENGLISH MANUFACTURE THROUGHOUT

Approved and recommended by the Medical Faculty

THERE IS ROOM IN YOUR SHOP
 FOR A SMALL STOCK OF

“CYNTA” Towelines & Accouchement Sheets

THE VERY ELITE OF SANITARY NECESSARIES.

In greater demand than ever.

Repeat Orders certain.

PRICES:

“CYNTA” Towelines.

	Knitted.	Woven.
Size 0	—	9/6 per gross.
“ 1	12/6	12/6
“ 2	17/-	17/-
“ 3	22/-	22/-
“ 4	26/-	26/-

In packets of half-dozen. Sizes 1 and 2, 6d. extra.
 Sizes 3 and 4, 1/- extra per gross.

“CYNTA” Accouchement Sheets.

No. 1	18 × 22 in.	10/- doz.
“ 2	20 × 26 “	14/6 “
“ 3	30 × 30 “	21/6 “
“ 4	36 × 36 “	30/- “
“ 5	36 × 54 “	45/- “

THE CYNTA MANUFACTURING COMPY.
ST. THOMAS' PLACE, STOCKPORT.

TO THE TRADE

You can now obtain
'Prana'
Sparklet Bulbs
(Type 'C')

for use with 'C' or 'D' Syphons

**Price 33/- per doz. boxes
 to retail @ 3/6 each.**

.....

*Empty 'D' bulbs should be returned for refilling.
 'B' bulbs will be on sale again at an early date.*

.....

**AERATORS Ltd., EDMONTON,
 LONDON, N. 18.**

IT MAKES YOU FIT
 AND KEEPS YOU FIT



The Value of "Vin-Sanguis"

is recognised by the private practitioner, the nurse and the Army doctor, as well as by the general public.

It is a blend of the choicest old mellow Wine with pure Meat Juice and Malt Extract.

Widely advertised and a ready seller: bearing a good profit to wholesaler and retailer.

Retailed at 2/9 and 5/- per bottle.

Write for particulars.

**D^r HALE'S
 VIN-SANGUIS
 WINE FOR THE BLOOD**

TRANS-CONTINENTAL AGENCIES LTD.,

Proprietors of Dr. Hale's "Vin-Sanguis" Co.,

444 Strand, London, W.C. 2. ;

EXTRACT OF MEAT

(IN BULK).

DIRECT IMPORTER

FROM

**AUSTRALIA, ARGENTINA, BRAZIL,
 URUGUAY, &c.**

IN VARIOUS QUALITIES.

I invite your Inquiries.

C. J. PIGGOTT,

PRODUCE IMPORTER,

19 EASTCHEAP, LONDON, E.C. 3.



WINOX Wine Food

is a high-class
 Pharmaceutical
 Wine, containing
 all the food ele-
 ments of Meat, Malt
 and Unfermented
 Grape Juice.

Unsurpassable for In-
 fluenza; invaluable for
 Anæmia, Lassitude, Neu-
 ralgia, Nerve and kindred
 troubles.

Winox will stand any
 climate, and contains no
 harmful drugs.

Price 5/6 per bottle retail.
 Chemists who do not already
 stock Winox should apply
 for price to WINOX LTD.,
 Richmond, Surrey.

FOR INFANT FEEDING AND HOUSEHOLD USE

HOOKE'S DRIED MILK

(Full Cream)

Manufactured in Buckinghamshire under the most hygienic conditions. Containing all the ingredients of rich cows' milk in powder form. Well preserved and easily reconstituted.

In tins, retailing at **1/6**, **3/-** and **7/6** each.

PRICES AND TERMS FROM—

THEW, HOOKER & GILBEY, LTD.

Manufacturers of Milk Products, BUCKINGHAM.

THE MOST ECONOMICAL INFANTS' FOOD.



ON P.A.T.A. LIST.

SHOWCARDS FREE.

FRAME FOOD CO., Standen Road, Southfields, London.



**LIQ. SANTAL FLAV.
c. BUCHU et CUBEBA**

(Hewlett's)

Packed for dispensing only,
in 10, 22, 40 & 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."

The Practitioner.

VIROPHOS

Of proved utility in Nervous Diseases,
and a powerful Restorative for the
Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value enhanced by the presence of assimilable phosphates."—*The Lancet.*

WHOLESALE PRICES.

No. 1.	1½ oz. Tin	9/- per doz.
" 2.	3½ " "	14/6 "
" 3.	6½ " "	24/- "
" 4.	12 " "	42/- "

**MIST. PEPSINAE CO.
c. BISMUTHO**

(Hewlett's)

Packed for dispensing only,
in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."

British Medical Journal.



Introduced and Prepared only by C. J. HEWLETT & SON, Ltd., Wholesale Druggists, 35-42 Charlotte St., London, E.C. 2.

KREMOFOS

CaH₂ (P.O.)
A British Product equal to
Cream Tartar 98 p.c.

**UNDER
2 %
SULPHATES.**

SANATOGEN

Nargentol

Contains 24 % Silver, with
Protein obtained from Wheat.
The most important and
satisfactory of all Silver
Salts.

**AS USED BY THE
WAR DEPT.**

NARGENTOL

**SILVER
PROTEINATE**

**(Protargol)
P.G.V.
British Make**

LYSOL

LECITHIN

**STYPTIC
PENCILS**

Stop flow of blood at once
Retailed at 6d. & 1/- each
2/6 doz.

From all Sundry
Houses.

Cable Address : "SELGOG LONDON."

Telephone : 2215 London Wall.

ESTABLISHED 1870.

JOHN LORIMER**10 CITY ROAD, LONDON, E.C. 1.**

British Make.

**ASPIRIN
Acid****Acetylsalicylic.**

SUPER B.P. QUALITY
Free from Acetic or Salicylic
Acid. Melting Point 135°
Bulk & Tablets

LANOLINE

**BETA-
NAPHTHOL
BROMIDES
CHLOROPHYLL
PHENOLPHTHALEIN
SACCHARINE**

PROTARGOL

**LORIMER'S
SANATOGEN****Pure and Genuine.**

Prices are
3/3 size, **20/- doz.**
6/- ,, **36/- ,,**

FORMAMINT

FORMAMINT

Identical in composition
and antiseptic value
with German
Formamint.
15/- doz.

**FAWCETT'S
Natural Process
BARLEY**

Purely Barley, and
purely British, not a
patent or chemically-
treated food. Recom-
mended for delicate
digestions at all ages.
Sells on sight.

UNRESTRICTED



DISTRIBUTION.

FAWCETT'S Barley Food Specialists
CANTLEFORD, YORKS.

**Recommend it for
Convalescence**

Doctors prescribe
Turtle Soup in all
cases where the
patient cannot
retain any other
nutriment.

**FREEMAN'S
REAL TURTLE EXTRACT**

is the real meat of selected West Indian Turtles,
compressed into handy tablets; it provides
all the delicacy and nourishment of soup made
from fresh killed turtles, and is quickly pre-
pared as it requires nothing but boiling water.

For hospitals, nursing and convalescent
homes it can be strongly recommended as
the best, safest and
handiest invigorator
obtainable.

The trade terms are par-
ticularly favourable, and
particulars can be obtained
by writing to

The Watford Mfg. Co. Ltd.
Beccoteland, **WATFORD**

Freeman's
FOOD PRODUCTS
Watford
S.A.A.

GELATINES

FINE LEAF GELATINE
PURE CALF

"ALBION" BRAND

(In 1 lb. Packets.
(112 × 1 lb. Packets to Case.)

MADE IN ENGLAND.

FINE CRYSTAL GELATINES.
PURE SKIN GELATINES.
POWDERED GELATINES.

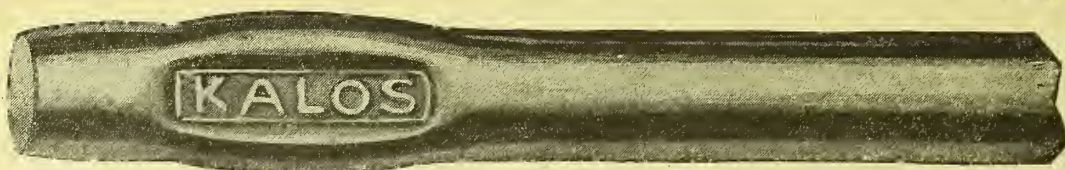
Samples on application from

OURY, MILLAR & CO.,

Telegrams:
"OLMENTH,
LONDON."

**9 Mincing Lane,
LONDON, E.C.**

Telephone:
4978 AVENUE.



LIQUORICE JUICE "KALOS" BRAND
IS THE SUPREME QUALITY
WITHOUT EXAGGERATED PRICE.

VIKING CHEESE RENNET

WHOLESALE.

24/- per gallon tin
12/6 " " quart jar
6/3 " " pint " "
3/- " " " "
1/7 " " " "

RETAIL.

29/- per gallon tin
15/- " " quart jar
7/6 " " pint " "
3/9 " " " "
2/- " " " "

These prices include containers and carriage paid.

VIKING RENNET and ANNATTO must not be resold to Cheesemakers at more or less than the retail prices stated above.
VIKING ESSENCE of RENNET JUNKET TABLETS, and JUNKET POWDER.

Prices on Application.

Sole Manufacturers—

THE VIKING RENNET CO., LTD., 19 Clapton Square, London, E. 5.

VIKING ANNATTO

WHOLESALE.

12/6 per gallon jar
6/6 " " quart " "
3/6 " " pint " "
2/2 " " " "

RETAIL.

15/6 per gallon jar
8/- " " quart " "
4/3 " " pint " "
2/6 " " " "

3 BIG BARGAINS

AUSTRALIAN HONEY. Another lot **7½d.**
of 350 Cases at ... per lb.
Ex Warehouse Liverpool.

80 Cases **WHITE CALIFORNIAN.** **92/6**
Ex Warehouse Liverpool. cwt.

2 Tons very choice **JAPAN.** Splendid **95/-**
quality in 300 lb. Casks—London ... cwt.

All offered subject unsold. Orders below 10 cwt. $\frac{1}{2}$ d. per lb.
extra. Terms—Cash against Invoice. Prompt delivery.

W. J. HALL, Honey Specialist,
Cheadle Hulme, MANCHESTER. Est. 1865

Dairy Produce Importers

NALBOROUGH & SONS, Ltd.

HARWICH, Essex.

ESTABLISHED 1829.

SUGAR OF MILK. CREAM OF TARTAR.
DRIED WHOLE EGG. DRIED HEN YOLK.
ALBUMEN.

MILK POWDER. HONEY.

LONDON.

If we can **SAVE YOU MONEY** by quoting you

NEW YORK.

RELIABLE

GELATINES

at PRICES LOWER than you are PAYING, you will appreciate that we don't need a full page to bring it to your notice—YOUR BUSINESS INSTINCT will do that—all you want is our address:

Telegrams:
"Maiden Southport"

Code:
A B C, 5th Edition.

ALBERT E. MAIDEN, SOUTHPORT

A postcard to-day will bring you samples and
rock-bottom prices by return.

Telephones:
244 & 540 Southport.

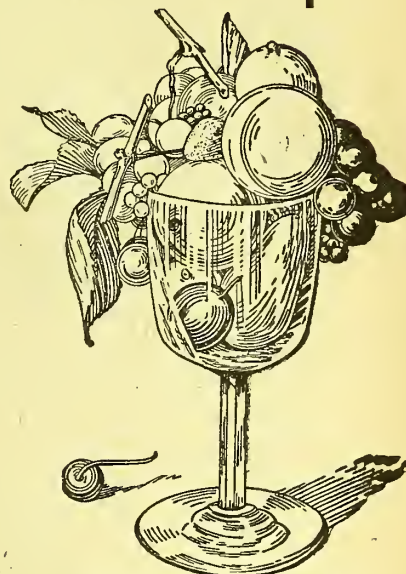
What an Eminent Authority
on Dietetics says about

FORT-REVIVER

The Great Non-Alcoholic Tonic Stimulant.

The well-known Author of "Diet and the
Maximum Duration of Life" writes:

"The physician hesitates to prescribe medicated wines because of the danger, especially to nervous patients, of setting up the alcohol habit, or, what is worse, the craving for drugs with which certain Tonics are 'fortified.' It is a pleasure, therefore, to recommend a Tonic Liqueur like FORT-REVIVER which is free from alcohol and contains no noxious medication, and yet, whilst being palatable and invigorating as well as refreshing, contains the most natural and beneficial of nerve restoratives, including organic phosphates of the nuclein group blended with pure fruit juices and reinforced with simple tonic ingredients which tend to restore tone to the nervous system."



Luscious, Fresh, and British.

FREE
from
DRUGS
or
ALCOHOL

FORT-REVIVER is an absolutely pure, wholesome, vigorous beverage, delightful to the palate and clean to the taste. It is made solely from the juices of the finest selected fruits, highly concentrated, and does not contain a particle of deleterious admixture. FORT-REVIVER builds up the weak and fortifies the strong. It gives the whole system tone, and enables it to withstand the attack of disease far better than any other tonic or stimulant. Its virtues as a recuperative after illness are unrivalled.

The Tonic with a Genuine Medical Guarantee on each Bottle.

*Get a bottle to-day; take a wineglassful after each meal,
and see how fresh, fit and vigorous you will feel in a week.*

NEWMAN'S FORT-REVIVER

A LIQUEUR TONIC

ENTIRELY BRITISH MADE AND NON-ALCOHOLIC.

FRUIT FOOD—Double, Highly Concentrated.

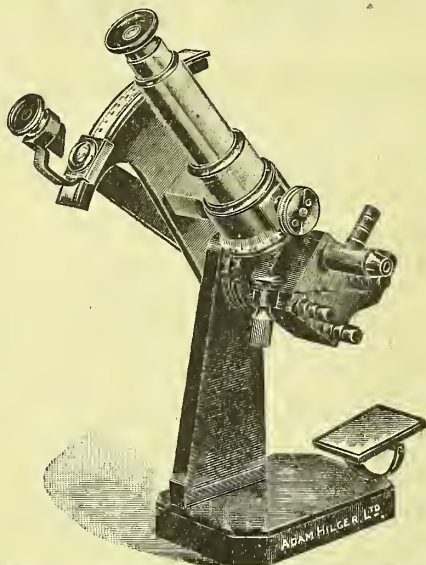
Obtainable everywhere, 5s. 6d. large size bottle, 3s. 9d. smaller size bottle.

Should you find any difficulty in obtaining NEWMAN'S FORT-REVIVER, apply to

H. & C. NEWMAN, London Office, 41-42 Upper Rathbone Place, W. 1.

ONE HUNDRED YEARS

OIL OF CLOVES in 1814 NICOTINE - - in 1918



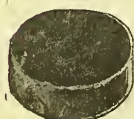
Since the first industrial application of refractometry by Wollaston in 1814, an enormous number and variety of pharmaceutical and other substances have been brought under this mode of control.

THE ABBE REFRACTOMETER

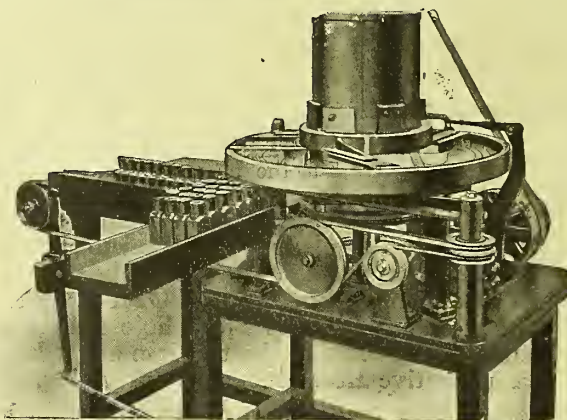
made by ADAM HILGER, Ltd., is, by reason of its accuracy and rapidity in use for such tests, an indispensable instrument for every control or research laboratory.

Descriptive Booklet post free on application to THE MANAGER—

ADAM HILGER, LTD.
75a Camden Road, LONDON, N.W. 1.



MACHINES for
WRAPPING
LABELLING
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THE FORGROVE COUNTING
AND FILLING MACHINE

Forgrove Machinery Company, Limited
Dewsbury Road, Leeds
TEL.: 26586

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STOVAINE

**THE LEAST TOXIC OF LOCAL ANÆSTHETICS
USED IN THE SAME WAY AND AS EFFICACIOUS AS COCAINE**

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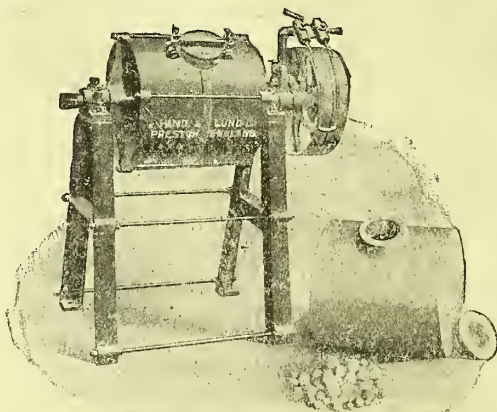
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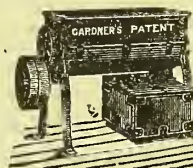
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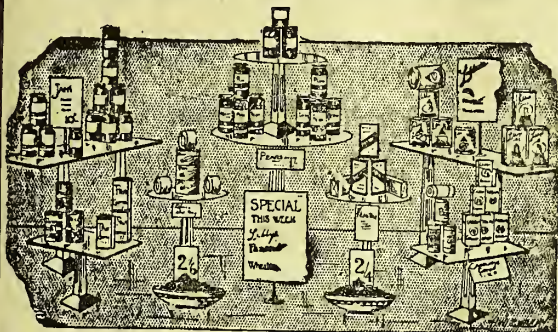
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Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, May 12.

Royal Society of Arts, John Street, Adelphi, London, at 4.30 P.M.
Cantor Lecture iv. (2).

Thursday, May 15.

Amalgamated Society of Pharmacists, Drug and Chemical Workers, Essex Hall, Essex Street, Strand, London, W.C., at 2.45 P.M.
Meeting of managers, dispensers, and assistants in the retail drug-trade and public services.

West Ham Association of Pharmacists, Earls Hall (Room 7), Earls Hall Grove, Forest Gate, at 3 P.M. Mr. P. J. Rowsell on "The Anti-cutting Question."

Chemical Society, Burlington House, Piccadilly, London, W. Meeting at 8 P.M. The following papers will be read: "Blue John and other Forms of Fluorite"; "The Nitration of Diphenylethylenediamine"; "The Destruction of Picric Acid in Nitrating Acid"; "The Constitution of Maltose: A New Example of Degradation in the Sugar Group"; "The Tannin of the Canadian Hemlock (*Tsuga Canadensis*, Carr)."

Friday, May 16.

Amalgamated Society of Pharmacists, Drug and Chemical Workers, 100 West Regent Street, Glasgow, at 8.30 P.M. Formation of a branch for Glasgow and West of Scotland, address by Mr. Herbert Skinner, Ph.C.

ESSEX (COUNTY) ASSOCIATION OF PHARMACISTS.—A meeting and outing will be held at Colchester on May 21. Ladies invited. Members and friends intending to be present should communicate with Mr. C. Goode, 6 Christ Street, London, E. 14.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

American Chamber of Commerce.

An Advisory Committee on Drugs, Chemicals, and Dye-stuffs of the American Chamber of Commerce in London has been formed recently and held its first meeting on May 1. The Committee is composed of the following: Irving A. Keene (the Keene Co.), C. J. Fisk (Parke, Davis & Co.), C. W. Barnes (Armour & Co.), J. Knights Trench (Brotherton Ratcliffe Co.), W. Mann (Mann & Cook), M. J. Pugh (London Chemical Works), F. G. Gill (Monsanto Chemical Works), H. W. Mills (the Fabra Co.), J. E. Ellis (John Ellis & Co.), G. H. Gherson (American Commerce Co.), G. Chiles (Thos. Morson & Son, Ltd.). Mr. Irving Keene was elected Chairman for the year. The Committee intends to take up matters appertaining to the Anglo-American interests of the chemical industry.

Birmingham.

The current price of oil of turpentine over the counter is 1s. 4d. a pint.

The Commercial Library (which is located in the new municipal annexe) was opened by the Lord Mayor on May 2.

At the War Hospital, the medical stores and dispensary are being dismantled and sent back to the London medical dépôt by Captain Sawyer and his assistants.

Liverpool.

Mr. John H. Robinson, Exchange Station Pharmacy, is taking a rest at Harrogate.

Mr. Wicks, who for some time past has been connected with the export department of Evans Sons Lescher & Webb, Ltd., is starting on a business tour in Nigeria and Uganda on behalf of the company.

A local pharmacist had a call this week from an old customer, who thus expressed his thanks for counsel tendered long ago: "Ten years since I was a martyr to neuralgia. You advised me to grow a beard; I did so, and have had no return of the pain. People said I was taking a fool's advice. Glad I did."

Mr. Ralph, who is well known in the Liverpool drug-trade as superintendent of the "town counter" of Ayrton, Saunders & Co., Ltd., has been presented with a testimonial by the staff on the occasion of his marriage. The gift took the form of pictures, and good wishes were numerous, Mr. Ralph being quite an Institution—with a capital "I"—in the district.

The entertainment staff of Ayrton, Saunders & Co., Ltd., gave a musical and dramatic entertainment at Crane Hall on May 2 and 3. Mr. W. H. Saunders and Mr. C. Huxtable (directors of the company) were the respective chairmen. A leading feature was the first production of a comedietta by Mr. E. Norman Terry. The receipts were handed to the Fazakerley Rest Room and the Surgical Requisites Association.

The Liverpool Pharmaceutical Committee has issued a circular-letter recommending pharmacists in Liverpool to dispense prescriptions written by a newly appointed police doctor at cost price of drugs plus a dispensing fee of 6d. for each prescription. A special form will be used, and it is understood that prescriptions will be returned to the chemists after checking. The letter concludes: "It will be observed that the terms are more satisfactory than those now applicable to Insurance prescriptions, and it is hoped that the pharmacists will agree to the terms arranged and loyally abide by them." Opinions differ as to the adequacy of the remuneration.

The Pharmacists' Section, West Lancashire Division of the St. John Ambulance Brigade, held a dinner, followed by a concert, at the Washington Hotel, Liverpool, on April 30, when about sixty members and friends (including ladies) were present. This was the final gathering of the Liverpool Pharmacists' Training Corps prior to demobilisation. Mr. J. L. Hirst, Superintendent, was in the chair, and during the evening the record of the corps was read by Mr. A. W. Ashcroft, Hon. Secretary. The programme, which was of an attractive and varied character, was in the charge of Sergeant Fletcher, pharmacist, manager of the Lodge Lane branch of Boots, Ltd. The evening was highly successful, and it was agreed that Liverpool chemists have a war record of which they may be proud.

Manchester.

At the annual meeting of the Manchester section of the British Association of Chemists, held recently, strong opinions were expressed in favour of registering the Association under the Trade Union Acts. It was stated that the most fervent opponents of trade unionism in the profession had gradually come round to the view that the aims and objects of the Association could be best attained under this form of registration. (These "aims and objects" were given in the *C. & D.*, 1918, p. 24).

Sheffield.

The general opinion is that trade has settled down considerably within the last few weeks.

It is understood that Mr. J. T. Appleton does not intend to enforce the injunction granted against Mr. F. R. Clark at Leeds Assizes (see p. 56).

At a meeting held at the Town Hall on May 2, it was decided to establish a branch of the National Association for Combating Venereal Diseases. One medical man told the meeting that a great deal of harm was done by the prescribing for the disease by quacks and chemists!

At a meeting held in Sheffield on April 29, under the auspices of the National Association of Industrial Chemists, it was announced that the Executive had decided, by a large majority, to register as a trade union. An official from the Ministry of Labour, addressing the meeting, said that scientific workers would have to face the opposition of the employers. It was not quite clear how far that opposition would come in, but, generally speaking, the attitude was that technical, scientific, and supervising workers were in positions of trust, and therefore should have no relation with the workers' organisations at all. That was, he believed, the view of a very considerable number of employers, but he was happy to say it was not the view of every employer.

Miscellaneous.

MEMORIAL ENDOWMENT.—The employés of Edward Cook & Co., Ltd., have collected the sum of 1,000*l.* in order to endow a bed in Queen Mary's Hospital, London, to perpetuate the memory of the late Mr. Thomas Alexander Cook, who for many years was chairman of the management committee of the hospital.

MUNICIPAL PHARMACY-CLASSES.—Twenty-two students have availed themselves of the pharmacy course just concluded at the Technical College, Wigan. The instruction, which was under the direction of Mr. T. H. Winstanley, chemist and druggist (Secretary of the Wigan Pharmaceutical Committee), and Mr. E. Naylor, included visits to various works.

POISONINGS.—At an inquest held in London on the body of Captain T. Asheton-Smith, A.V.C., who committed suicide with morphine in Middlesex Hospital, the evidence showed that he was suffering from cancer, the pain of which would render him irresponsible for his actions.—Mrs. Waddington, Worth Valley, committed suicide with salt of lemon.

LEMON AND ORANGE PEELING.—The Home Office has issued a poster dealing with the steps to be taken to prevent and treat acid "holes" or ulcers caused on the skin of workers who peel lemons or oranges. If the skin is broken it is recommended that it should be bathed with a solution of sodium bicarbonate 1 oz., in water 1 pint; and the same treatment is applicable where the skin becomes inflamed or eczema appears.

IRREGULAR CLOSING-HOURS.—At a recent meeting of Blackpool Chamber of Trade complaint was made that some tradesmen were keeping open longer than allowed under the Early Closing Order. Mr. G. A. Clarke, chemist and druggist, said that the local Pharmacists' Association recently wrote to the authorities about the practice, but nothing was done. It was decided to send a letter from the Chamber to the Chief Constable.

WINDOW-DRESSING COMPETITION.—A first prize has been won in the window-dressing competition at the recent Drapery Trades Exhibition in London by Mr. G. E. Marfitt, pharmacist, Leicester. In Class E, one of the classes for which Mr. Marfitt entered, a silver cup and various medals were offered for the best display made with any one line of merchandise. The judging was done from photographs, and Mr. Marfitt was declared the winner of the cup and a gold medal. The window-display in question was one of a phosphorus-and-quinine tonic, and was, of course, in competition with the work of experts in all kinds of window-dressing.

COCAINE CASE.—At Marlborough Street Police Court, London, on May 3, the hearing of the case against A. A. Toose of being in unauthorised possession of cocaine

(*C. & D.*, May 3, p. 47) was continued. Counsel for the defence, addressing the magistrate, said the way the regulations were drawn up placed him in a difficulty, as, according to Regulation 40*b*, even the police were not authorised to be in possession of cocaine. The actor Belcher, from whose possession the cocaine passed to that of Toose, was asked why he did not destroy it. He replied, "I had no means. I had no garden, and only gas fires." The case was again adjourned.

EARLIER CLOSING.—Commencing on May 12, the chemists of Bristol are adopting earlier closing, the new closing-times being 7 P.M. on Monday, Tuesday, Thursday, and Friday, 1 P.M. on Wednesday, and 8 P.M. on Saturday. The order would have been put in force some months ago (a canvass of the trade having resulted in a large majority in favour of the proposal), but unexpected opposition was encountered from the local Insurance Committee. The chemists then arranged for a deputation to lay their case before the Watch Committee, when the Insurance Committee said their objection would be withdrawn if the chemists would arrange a rota for dispensing panel medicines. This has now been done.

IN THE COURTS.—At Mansion House Police Court, London, on May 1, Jacob G. Botesz, ship's steward, was summoned for having unlawfully concealed 4 lb. 12 oz. of uncustomed saccharin, of the single value and duty of 34*l.* 18*s.* 3*d.* A penalty of 100*l.* was sued for; but having heard the defendant's explanation that the saccharin was supplied by the owners of the vessel for use in case of shortage of sugar, the Alderman held that the offence was a technical one, and imposed a fine of 5*l.*—At Mansion House Police Court, London, on May 2, William Hall, accountant, King Henry's Road, N.W., was committed for trial on a charge of forging and uttering cheques for 52*l.* 10*s.* and 126*l.* 15*s.*, purporting to be signed by Mr. Lovegrove, managing director of Charles Page & Co., fertiliser-manufacturers and merchants, King William Street, E.C.—At Marylebone Police Court, London, on May 2, two youths named Gilks were remanded on charges of stealing and receiving 10½ lb. of mercury, valued at 2*l.* 12*s.* 6*d.*, the property of Newton & Wright, Ltd., medical-appliance manufacturers, Wignmore Street, W.—At Old Street Police Court, London, on May 7, Charles Frederick Masters (or Maestri), traveller, Cambridge House, King's Heath, Birmingham, was charged on remand with having obtained by false pretences sums of 20*l.*, 10*l.*, and 10*l.* the moneys of the Milton Manufacturing Co., Ltd., 125 Bunhill Row, E.C. It was stated for the prosecution that prisoner applied to the prosecutors for employment as a traveller, offering as an inducement the fact that he was in touch with some of the directors of the Scottish Wholesale Co-operative Society in Glasgow, and that he had a personal acquaintance with Lord Esher, the chairman of the Society. Relying on prisoner's statement, he was appointed to act for the prosecutors for the sale of their products in the North of England. He suggested that before he took up this position he should go to Glasgow, where he could secure a large order from the Scottish Wholesale Co-operative Society. He asked for 20*l.* for expenses, and was given this sum and a first-class ticket to Glasgow. Within twenty-four hours he telegraphed for more money, saying he had mislaid his note-case. This and other sums were sent him on his statements that he was about to secure an order for 14,590*l.* worth of disinfectants, etc. Eventually the managing director of the company went to Glasgow, and found that the order was a fiction and that prisoner's vaunted connection with Lord Esher and others was also unsubstantiated. In all the prisoner had got about 100*l.* from the firm by his representations. Evidence in support of this statement having been given by Mr. H. S. Morrison, a remand was ordered.—Arthur Jackson, electrician, was recently sentenced at Nottingham Guildhall to three months' imprisonment for receiving an electrical testing megger, valued at 40*l.*, the property of Boots, Ltd.

CAUTERISATION IN DOG-BITES.—Writing to the "Daily Express" of April 25 concerning the reported refusal of a pharmacist to cauterise a dog-bite, Mr. W. O. Whitley, chemist and druggist, Trowbridge, says: "I myself have cauterised dozens . . . in the course of my twenty-three years' business career."

COCAINE PLANT FOR JAVA.—Mr. W. L. Nederhoed, an exporter and importer, of Tokio, Japan, was in San Francisco, Cal., recently, on his way home from a business trip to the United States. He stated that American capital had become interested in the establishment of a cocaine-manufacturing plant in Java, and that he had been commissioned to establish such a plant by the Dutch East Indies Syndicate.—*New York "Drug and Chemical Markets."*

Irish News.

Brevities.

On May 1, an outbreak of fire was discovered late at night at the rear of Coghlan's Medical Hall, Ennis. The back premises and those of the adjacent establishment were gutted.

At a meeting of the Finance Committee of the Londonderry County Council it was pointed out that the income of Mr. J. H. Totton, public analyst, for the year ended December 1918 was 117*l*. The Committee recommended payment of a war bonus of 10*l*. per annum from January 1.

Drugs and Appliances Contracts.

The Local Government Board has intimated to the Athy Board of Guardians that over forty Irish Boards of Guardians have accepted the tender of Sumner & Co., Liverpool (C. & D., April 5, p. 50, and April 26, p. 56), consequently the contract must be assigned to that firm. Boileau & Boyd, Ltd., have tendered afresh at 17 per cent. discount. The Chairman stated that if Sumner & Co. had the contract of forty Irish Boards there was enough Irish money going to England. In view of transport and other difficulties it was decided to accept the amended contract of Boileau & Boyd, Ltd., explaining the reason for so doing to the L.G.B.—The King's County Infirmary Committee have accepted the tender of Boileau & Boyd, Ltd., for medicines, etc., at discounts of 10 per cent. and 12½ per cent. respectively—an increase in each case of 2½ per cent. on the former tender.

A Long-firm Case.

At the Belfast Bankruptcy Court recently, in the matter of James McClean, who had carried on business at 12 Howard Street under the name of J. C. McCullough & Co., Judge Craig directed service to be made by registered letter, addressed to Mr. McClean at 12 Howard Street, Belfast, and by a similar letter addressed to Mr. Alexander, appearing for the bankrupt, a copy of the same order to be enclosed in each case. The case again came before the Court on May 5, when it was intimated that inquiries had been made at the local hospitals, and a detective had also been employed, but so far they had failed to discover the whereabouts of the bankrupt. The Judge made an order for the bankrupt's arrest, and for the adjournment of the sittings till May 12.

Scottish News.

Brevities.

It is understood that an Alloa pharmacy is in the market. Many chemists are refusing to poison dogs, on account of the risks run.

Mr. Sommerville, chemist and druggist, has commenced business at Kinglassie, Fife.

Representatives of wholesale houses are now as numerous as in pre-war days, and as well versed in the art of polite persuasion.

In a Scottish newspaper the other day a qualified manager was advertised for at a weekly salary of 4*l*. 4*s*. (outdoors), and an unqualified assistant was offered 3*s*. (outdoors).

A further increase in the price of perfumes is evidently anticipated by the public, judging from recent purchases. In some cases the Christmas level has been reached or passed.

"By all means," writes a correspondent, "let us increase our prices as others are doing. Why should we chemists pay higher prices to all other tradesmen and leave ourselves the doormat?"

Mr. Frank Milne, who was for over twenty years with William Davidson, Ltd., wholesale druggists, has joined the staff of William Paterson & Sons, manufacturing chemists, Aberdeen. Mr. Milne has recently been released from the Army after serving for over four years with the Royal Engineers.

"Ever hear anything of your assistant now?" inquired the talkative customer. "No, I haven't heard since he was promoted some time ago," the chemist replied. "Why, he may be a general!" enthused the lady. "I shouldn't wonder," was the musing comment; "he used to confess he loved responsibility more than any sort of work."

Dundee.

J. Hardie & Son, whose premises were recently sold, have secured a corner shop in High Street.

Mr. John L. Doig (Doig & Sons) has been absent from business for a fortnight owing to serious illness.

The premises at 56 Nethergate, formerly occupied by the late Mr. Charles Kerr, Ph.C., are to be sold by auction on May 20.

Andrew Lawson, Ltd., chemists, 65 Perth Road, have disposed of this business to Mr. D. S. Rattray, Ph.C., Aberdeen.

Edinburgh.

The May holiday will take place on the 20th.

The prices of chemical glassware are at present extraordinarily high. Glass funnels, for instance, which in pre-war days were 2*s*. or so per dozen, are being retailed at 1*s*. each.

A "certified medical herbalist, specialist in chest and lung diseases and skin troubles," advertises in the local Press that medicines can now be had at a dental surgery, the address of which is given.

Glasgow.

The "Evening Times" states that 500 students have enrolled for botany at Glasgow University.

A branch of the Pharmacists' and Assistants' Section of the National Warehouse and General Workers' Union has been formed in Glasgow.

A course of twelve lectures on "Flowers and Plant-life" is to be given by Dr. Ellis at Glasgow Royal Technical College. The fee is 2*s*. 6*d*.

Through the efforts of the Medico-Political Union, Glasgow doctors are to be allowed to travel on cars already carrying the statutory number of passengers.

Society of Chemical Industry.

A MEETING of the London Section was held on May 5 at Burlington House, Piccadilly, W., Dr. Charles A. Keane in the chair. The annual report of the Section was read, from which it appeared that the Section now numbers 1,285 members. It was due to the Society's initiative that at the recent Paris meeting of Allied chemists an Inter-allied Federation of Chemists was formed, the first meeting of which will take place in London, in July, on the occasion of the Society's annual meeting. Dr. Keane then gave an outline of the programme arranged for the annual meeting, which will be held on July 14-18. The headquarters of the meeting, which is under the patronage of the King, the Prince of Wales being Vice-Patron, will be in Salter's Hall. The proceedings will open with the annual meeting at 10 A.M. on July 15, which will take place in the Mansion House, where the Lord Mayor will be present. At 3.30 P.M. a Conference of the Inter-allied Federation of Chemists will be held at the Mansion House. The annual dinner will be given at the Savoy on July 16; in connection with the meeting there will be a chemical exhibition at the Central Hall. A visit to Windsor is also proposed. Dr. Percy E. Spielmann then read a paper, by himself and Mr. E. Butler Jones, on *The Estimation of Carbon Disulphide*. The carbon disulphide is extracted (from benzol) by ethyl alcohol, and then treated with potassium hydroxide and bromine, yielding potassium xanthate. The estimation of the latter, both by the volumetric and gravimetric methods, does not yield satisfactory results. Copper xanthate, when this alternate method is adopted, is not of uniform composition, hence the differences in the results obtained. The precipitation of carbon disulphide by phenyl hydrazine also does not yield satisfactory results. Another method, which gives fairly good results, consists in determining the specific gravity of the benzol, before and after extraction of the carbon disulphide. Dr. S. P. Schotz then read a paper, by Dr. Percy E. Spielmann and himself, on *The Estimation of Thiophene*, in which he discussed Denigès' method and its modifications, and the method proposed by Paolini and Silbermann. He stated that the modified mercuric sulphate method was to be preferred. In the paper on *The Estimation of "Free Carbon" in Tar and Pitch*, by Dr. Percy E. Spielmann and Mr. Henry Wood, the former dealt with various empirical methods adopted to determine the amount of insoluble substances with a high molecular weight, containing a large amount of carbon, present in pitch on the distillation of tar, a determination of interest to briquette manufacturers. The method adopted consisted in extracting pitch, mixed with double its weight of sand, placed in a thimble, with benzine and carbon disulphide. It was found that the extraction exerted a direct action on the thimble used, which proved a source of trouble. The observation was made that a direct relationship existed between the softening point of pitch and the "free carbon" content.

Organising the Drug-trade.

Progressive Pharmacy Club.

A CONFERENCE of employers and employes was held at the Progressive Pharmacy Club, London, W.C., on May 7, to discuss *The Industrial Council in Pharmacy and its Local Application*. Mr. Herbert Skinner presided, and among those present were Mr. A. H. Jenkin, Mr. John Humphrey, Mr. G. D. Bowie, Mr. A. R. Keith, Mr. A. Catto, Mr. A. Jones, and Mr. B. Webster. The club-room was full, and the speeches were numerous, concise, and pointed. Mr. Skinner opened the proceedings with an indication of the position as it presented itself for discussion, emphasising the fact that London could grasp the problems more easily than provincial districts, where it is more difficult to get chemists together. Mr. Jenkin followed with an exposition of the situation, pointing out that any scheme must be tentative until the suggestions of the provisional Industrial Council are known. He summed up his attitude to the question in the phrase, "Hands off our Associations," deprecating any use of existing machinery to split the members into employers and employed. He suggested that sections should be formed from the Associations for these particular purposes without impairing the unity of those bodies, and added that possibly the new Industrial Councils would eventually take the place of the Pharmaceutical Society in questions relating, for example, to wages and working-hours. The numerous questions which followed Mr. Jenkin's speech revealed, in more than one instance, a natural difficulty in steering among the intricacies of pharmaceutical organisation; but these inquiries were handled with complete mastery by Mr. Skinner and Mr. Jenkin, and the situation gradually became clear to everyone. Mr. Keith and some other speakers were in favour of Associations of employers being formed *de novo* for the purposes of a Whitley Council, and it was made evident that, in any case, the employers' Associations would have to be so constituted as to satisfy the employed. The Pharmaceutical Society was the subject of several critical questions and comments, one speaker declaring that it was impotent. In summing up the discussion, the Chairman said that he was anxious that London should not lose its opportunity of acting as a model to the rest of the community, and pointed out that Trade Boards could be applied sectionally in any part of the country. A resolution was unanimously carried by the employers present instructing the Secretary of the Club to write to the Secretary of each of the Local Associations of London asking them to approach the County Association with a view of calling a meeting of employers' delegates in order to consider at once the question of a union. A hearty vote of thanks was passed to Mr. Skinner for his services in the chair.

Meeting of London Assistants.

WHAT was stated to be the largest meeting of chemists' assistants ever held in London assembled at the Central Hall, Westminster, on May 7, to hear Sir William Glyn-Jones speak on *Organisation for Chemists' Assistants*. There was a fair sprinkling of ladies present. Mr. W. L. Currie, President of the Pharmaceutical Society, occupied the chair. In his introductory remarks he stated that pharmacists do not want to be included with drapers, fish-vendors, and the like, but desire an Industrial Council of their own. The employers are already well united, but the assistants are not. Sir William Glyn-Jones, who was received with applause, said that if some of their predecessors who had passed away could have been present they would have said we were living in a new world. He spent a few minutes for the benefit of those who had served with the Colours in explaining the proposed State aid for a renewal of interrupted studies. A maximum of 170% will be granted to suitable students, and the Pharmaceutical Society is to be responsible for the institution at which the training will be given. It is preferable to have a course of six months' training, spread evenly over the period, than to try a three months' course, with the prospect of going over the same hasty curriculum for another three months in the event of failure. He is pleased to have been chosen to act as the Interviewing Board for prospective students in London. There will be eleven of these boards throughout the country. It is not possible to commence the assisted courses before October. This fact will not prejudice assistance to those who have already started. A personal appeal to write to the speaker if a demobilised man is in any difficulty was met with applause. Sir William Glyn-Jones then outlined the distinction between a Trade Board and an Industrial Council as already detailed before the Local Associations' Conference (C. & D., April 26, p. 71). The chief points of difference between chemists' assistants and

industrial workers are that the assistants are scattered and the barrier between employe and employer is less wide. The Pharmaceutical Society, the wholesalers and workers, have concluded that an Industrial Council is preferable to a Trade Board, which would be much worse in their case, as one Board is proposed for all the distributive trades. The Wholesale Joint Committee represents fifty to sixty wholesalers and drug and chemical manufacturers. The Retail is already well organised, through the Local Associations Executive. He doubted if 20 per cent. of the employes are organised. Speaking of the prejudices against trade unionism, he said that chemists had been fools not to learn from the working men the value of co-operation. He instanced the Proprietary Articles Trade Association as a trade union. He had been sent officially to encourage chemists' assistants to join a union, and would be delighted to approach the Ministry of Labour, within the next few weeks, with a complete organisation of the employers and employes. He advised everyone to take steps to join a drug-trade organisation, but stated that wild horses would not drag a preference in regard to any one. A guarantee had been given that no advocacy of any union would be made at the meeting. Questions were invited at the close of his speech, which lasted about an hour. In reply to one, asking whether it would not be preferable to have only one organisation, Sir William Glyn-Jones replied that that ideal could not exist, as there were already some five or six established. A proportion of the audience seemed to desire a lead in regard to the most desirable union, but this was not forthcoming. Sir William dissociated the Pharmaceutical Society from the distribution of leaflets before the commencement of the meeting. An Industrial Council would apply to dispensers in public institutions, but a Trade Board would not. Several resolutions were ruled out of order. The proceedings terminated with votes of thanks to the Pharmaceutical Society and the speakers.

Meeting of Scottish Pharmacists.

At the general meeting of Scottish pharmacists, including assistants and apprentices, on April 30, Mr. William Giles, Chairman of the North British Branch Executive, presided.

The first business taken up was the maintenance and improvement of local organisation in Scotland, and the rendering of it more effective. As to the grouping of Associations and the holding of District and General Conferences, the following resolution was unanimously adopted:

That Associations for which Aberdeen, Dundee, Edinburgh, and Glasgow respectively are convenient centres should be grouped, with a view to holding four annual district Conferences; that there be also an annual general conference of Scottish pharmacists to be held in rotation in Aberdeen, Dundee, Edinburgh, and Glasgow.

In regard to the membership of Local Associations and their relationship to the Pharmaceutical Society as the central statutory authority in pharmacy, the following resolution was unanimously adopted:

That with a view to giving effect to the views of Local Associations in the administrative work of the Pharmaceutical Society, it is desirable that membership of the Society should be a condition of membership of the Local Association, the Secretary of each Local Association to hold *ex-officio* the same rank as a Divisional Secretary.

The question of the linking-up of Scottish local organisation with local organisation in England and Wales and with any general Conference of the pharmacists of Great Britain was next considered, and the following resolution, which embodies the result of the visit by deputies from the North British Branch to the Conference of Local Associations in London, was unanimously adopted:

That the Executive of the North British Branch, being a popularly elected representative body, should appoint representatives from their number, and that the four groups of Local Associations, for which Aberdeen, Dundee, Edinburgh, and Glasgow are respectively convenient centres, should appoint representatives to attend any General Conference of the pharmacists of Great Britain, and that it be remitted to the Executive, in consultation with a small Committee of the Local Associations Executive, to adjust details for linking up the foregoing plan with the Local Associations Executive.

In regard to the question of territorial representation and the method of electing the Council of the Society the following resolution was unanimously adopted:

That while favouring territorial representation, no method of securing it is practicable without fresh legislation; that under existing conditions it is inexpedient to make the whole constitution and functions and charter rights of the Society a matter of Parliamentary review; that hitherto the good sense of the electorate as a whole has provided a fairly satisfactory representation of all areas and of all classes of pharmaceutical practice; that the present method of electing the Council should be continued till a more favourable opportunity for seeking fresh legislation arises; and that in any scheme for territorial representation with a Council of twenty-one members, three at least should be allocated to Scotland.

Leicester Assistants.

An enthusiastic meeting was held on May 6 for the purpose of forming an Association of assistants employed in retail pharmacy in Leicester. Mr. Hind and Mr. A. E. Young, of the Leicester and Leicestershire Pharmacists' Association, were present. In view of the need for organisation it was unanimously resolved to form an Association. Mr. S. Squires was elected temporary *President*, and Mr. T. E. Mellor was elected *Secretary pro tem*. Delegates were chosen to attend the Pharmaceutical Society's meeting at Birmingham on May 14, and a small Committee was formed to discuss the advisability of affiliation with any Union or like Association. There were fifty-six assistants present. Mr. Hind and Mr. A. E. Young each gave a donation of 1*l.* 1*s.* to the funds of the Association.

Business Changes.

MR. J. W. AHSBY, chemist and druggist, has purchased the business of the late Mr. Major Sharpley, Whittlesa.

MR. S. H. HART, Ph.C., has acquired the business of his former employer, the late H. W. Plews, chemist and druggist, 14 Basinghall Street, London, E.C. 2.

DANYSZ VIRUS, LTD., proprietors of Danysz Virus and other specialities, have removed from 52 Leadenhall Street, London, E.C. 3, to 325 Borough High Street, S.E. 1.

MR. J. E. TIBBS, JUNR., general produce broker, 50 and 51 Lime Street, London, E.C. 3, announces that his son, Mr. Evan Llewellyn Tibbs, has been admitted into partnership. The name and style of the firm will remain as hitherto.

TAYLORS' DRUG CO., LTD., have purchased the businesses previously carried on by Mr. G. E. Woodhouse, 16 Pow Street, Workington; Mr. G. Giles, 47 High Street West, Wallsend; Wright & Barnaby, 223 Oxford Road, Manchester; Mr. W. J. Cooling, 3 Delaunay's Road, Higher Crumpsall; Milburns, Ltd., High Street, Stockton-on-Tees.

Medical Gleanings.**Camphor in Influenza.**

DURING the outbreak of influenza at Felixstowe, Giuseppe ("Brit. Med. Journ.," 3,026, p. 716, 1918) treated 250 cases with camphor, with a mortality of one. In another series of 200 cases during the same outbreak, and untreated with camphor, the mortality was 2 per cent. The incidence of broncho-pneumonia in the first series was 10 per cent., in the second, 8 per cent. The treatment consisted in the administration of pills containing 4 grains of camphor made up with soap, in mild cases three times daily, and in the very acute cases every three hours. Treatment was continued until the temperature dropped and the signs of bronchitis or broncho-pneumonia cleared up.

Trimethenal-Allyl-Carbide in Influenza.

RENNY ("Lancet," Vol. I., 1919, p. 440) states that when trimethenal-allyl-carbide (yadil) was given during the first day or two of the attack of influenza there were no complications, all his patients made very satisfactory recovery. As a result the author wrote to ten doctors who had used this preparation in combating influenza. He received information of 1,623 cases of influenza treated with it, in about 915 of which it was given during the first or second day of the disease, and complications developed in only six of these cases. The dosage varied between 15 min. and $\frac{1}{2}$ oz.; the majority preferred to give 1 dr. every three hours, or three times a day.

Preparation of Novarsenobillon Solution.

ANWYL-DAVIES ("Lancet," II., 1918, p. 757) gives the method adopted at St. Thomas's Hospital for administering novarsenobillon intramuscularly. The following solution is prepared:

Guaiacol	...	...	...	1 part
Pure liquid glucose	...	...	...	50 parts
Water (recently sterilised)	...	...	...	100 parts

The water and glucose are sterilised and the guaiacol is added when cold. Of this solvent 10 to 20 minims are taken and the novarsenobillon powder is dissolved in it, which it readily does, even when the dose is as large as 0.75 gram. The injection is made with this amount.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.**ENGLAND.**

Burnley.—At a meeting of the Insurance Committee it was stated that last year 111,051 prescriptions were issued, the average price being 7.47*d.* The ingredient-prices totalled 1,922*l.*, and the dispensing-fees 1,537*l.*—At a meeting of the Insurance Committee, held on April 28, the Clerk submitted the following statistics:

	Prescriptions Issued	Total Value	Average Price	Total Cost per Insured Person
1918 ...	111,051	3,459 <i>l.</i> 9 <i>s.</i> 4 <i>d.</i>	7.47 <i>d.</i>	20.49 <i>d.</i>
1917 ...	105,666	2,651 <i>l.</i> 18 <i>s.</i> 4 <i>d.</i>	6.02 <i>d.</i>	15.74 <i>d.</i>
1916 ...	104,248	2,720 <i>l.</i> 5 <i>s.</i> 10 <i>d.</i>	6.26 <i>d.</i>	12.15 <i>d.</i>
1915 ...	111,264	3,025 <i>l.</i> 0 <i>s.</i> 9 <i>d.</i>	6.52 <i>d.</i>	16 <i>d.</i>

A statement showing the result of the re-assessment of ingredient- and dispensing-fee prices in respect of the year 1918 was also submitted:

	Ingredient Prices	Dispensing Fees	Total
New Tariff ...	1,922 <i>l.</i> 4 <i>s.</i> 9 <i>d.</i>	1,537 <i>l.</i> 4 <i>s.</i> 7 <i>d.</i>	3,459 <i>l.</i> 9 <i>s.</i> 4 <i>d.</i>
Old Tariff ...	2,921 <i>l.</i> 16 <i>s.</i>	847 <i>l.</i> 0 <i>s.</i> 3 <i>d.</i>	3,768 <i>l.</i> 16 <i>s.</i> 3 <i>d.</i>

Essex.—A report presented to the Insurance Committee states that prescriptions dispensed during the nine months ended September 30, 1918, numbered 499,211 (22,656 more than in the corresponding nine months of 1917), costing 15,252*l.* 3*s.* (2,649*l.* 10*s.* 3*d.* more), an average total cost per prescription of 7.45*d.* (against 6.59*d.*).

Smethwick.—At a recent meeting of the Insurance Committee the report of the West Midland Joint Committee for the year ended December 31, 1918, was received. The report stated that the number of scripts received during the year (2,253,255) is exceptionally heavy, and is accounted for by the epidemics of influenza in the months of July and November. The average cost of administration, per thousand prescriptions, received from the areas of the constituent Insurance Committees is shown below. The cost for 1918, per thousand prescriptions, is slightly less than for 1917, but this is due to the comparatively heavy number of scripts received during 1918. In view of present circumstances, as compared with those existing in January 1916, the increased cost is comparatively low. There is every reason to believe that the Pharmaceutical Committees, for the areas included in the West Midland "group," are satisfied with the accuracy of the pricing of the prescriptions forwarded by them. The total amount of chemists' accounts prepared during the year, in respect of the period December 1, 1917, to November 30, 1918, was 67,444*l.* 6*s.* 5*d.*, an increase of 14,882*l.* 3*s.* 2*d.* over the corresponding 1917 period. The number of accounts prepared in respect of the first-named period was 7,708.

Cost of Administration.

	1916	1917	1918
Total number of prescriptions received	1,838,567	2,054,566	2,253,255
from areas of constituent committees	1,838,567	2,054,566	2,253,255
(11 months)			
Average cost per thousand prescriptions	19 <i>s.</i> 4 <i>d.</i>	16 <i>s.</i> 2 3 <i>d.</i>	15 <i>s.</i> 11 1 <i>d.</i>

Statistical Data re Prescribing for the Year Ended December 31, 1918.

Name of Committee	Number of Prescriptions	Average Ingredient Price	Average Dispensing Fee	Average cost per Prescription
Burton ...	47,380	3.16	3.28	6.45
Coventry ...	115,033	3.74	3.45	7.19
Dudley ...	41,135	3.79	3.25	7.04
Herefordshire ...	47,902	3.38	3.30	6.68
Leicester ...	216,805	3.38	3.42	6.81
Leicestershire ...	163,916	4.00	3.39	7.39
Northampton ...	76,565	2.49	3.22	5.71
Northamptonshire ...	96,986	4.18	3.31	7.49
Salop ...	129,906	4.58	3.33	7.90
Smethwick ...	79,649	2.99	3.40	6.40
Staffordshire ...	515,559	3.59	3.30	6.90
Walsall ...	127,797	3.85	3.44	7.28
Warwickshire ...	193,908	4.57	3.37	7.94
West Bromwich ...	76,619	3.42	3.39	6.81
Wolverhampton ...	91,702	4.31	3.36	7.67
Worcester ...	46,094	5.20	3.36	8.56
Worcestershire ...	226,891	4.08	3.38	7.46

TELEPHONE REBATE.—The Postmaster-General has decided to grant a rebate on telephone charges incurred during the snowstorm of last January in cases in which "the interruption lasted more than one week."

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

QUALITATIVE ANALYSIS FOR JUNIOR STUDENTS.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopoeia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, marked "Corner for Students," on the top left-hand corner) will be received up to Tuesday, May 13, on which day the samples will be posted.

Students' reports will be received up to Saturday, May 24. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

SPECIAL NOTICE.—The prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, *which fact must be attested on their reports.* Others may obtain specimens of the mixture of salts, and their reports will be separately adjudicated, but they will be regarded as *hors concours*. Correspondents who do not state that they are preparing for a qualifying examination will be included in the latter list.

Report on the April Analytical Exercise.

The powder distributed to students on April 8 contained five parts by weight of ammonium aluminium sulphate (ammonium alum), four parts of zinc hydroxycarbonate, and one part of ammonium chromate. The calculated composition of such a mixture is:

Al	...	...	...	3.0
Zn	...	...	...	22.9
NH ₄	...	...	...	4.4
SO ₄	...	...	...	21.2
CO ₃	...	...	...	7.0
CrO ₄	...	...	...	7.6
OH	...	...	...	8.0
H ₂ O	...	...	...	25.9

100.0

Traces of iron and of the nitric acid radical—the latter an impurity in the ammonium chromate—were also present as impurities.

Samples of the powder were distributed to forty students, and twenty-one reports were submitted for examination. The presence of the chromic acid radical was reported in every case. The failures in the detection of the other constituents were: (a) Metallic radicals: Aluminium, 6; zinc, 1; ammonium, 1. (b) Acidic radicals: Sulphuric, 1; carbonic, 3. Four students failed to report the evolution of water when the powder was heated in a dry test-tube. The trace of the nitric acid radical was detected in two instances only.

This powder furnished an example of a mixture for analysis which was free from any considerable complication. That it contained a chromate was easily recognised in the preliminary testing, and those students who reduced this to the condition of a chromic salt by means of sulphurous acid or of hot concentrated hydrochloric acid prior to entering upon the systematic separation into groups avoided the necessity of separating and examining the precipitate, consisting of sulphur only, which was produced by hydrogen sulphide.

The separation of the chromium and aluminium was a matter which gave rise to a number of failures, but few of these occurred when one or other of the well-recognised text-book methods was adopted. More than one student, however, attempted a separation of the mixed hydroxides by treatment with a solution of potassium hydroxide, a reagent in which both are soluble in the cold, and the results obtained could not be satisfactory analytically, even although accurate conclusions were reported in some instances.

The numerous cases in which a chlorido was reported present, either as a main constituent or as an impurity,

suggest that the sodium carbonate used in preparing solutions to be tested for acid radicals must often contain admixed chloride. This reagent should be carefully tested for chloride and rejected if found to contain it. A direct test for chloride applied to this month's mixture, by dissolving a considerable quantity in dilute nitric acid and adding silver nitrate, did not yield any recognisable turbidity on standing.

Comments on several other points which arose in connection with the reports of individual students are included in the replies to correspondents printed below, and all our correspondents are advised to read the whole of these replies and not merely those which refer to their own individual reports.

PRIZES.

The First Prize for the best analysis has been awarded to ELIZABETH SIM, Cemetery Lodge, Kelso.

The Second Prize has been awarded to JAMES LEITCH, c/o Crow, Union Street, Kelso.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

1. Competitors who are unqualified:

E. Sim (1st Prize)	...	97	Jayjay	...	...	88
J. Leitch (2nd Prize)	...	96	B. B. Dutta	...	...	87
Amethyst	...	95	Serum	...	...	82
Mist	...	94	Secundus	...	...	78
Luggie	...	93	T. E. P.	...	...	77
Ferrum	...	92	Melonia	...	...	74
Joshua	...	92	Pimento	...	...	64
F. L. Taylor	...	89	Blighty	...	...	33
Ionia	...	89				

2. Competitors who are qualified:

Lawton	...	90	Radia	...	...	75
Pilula	...	85	Tyrone	...	...	89

TO CORRESPONDENTS.

AMETHYST AND OTHERS.—In a separation carried out with a considerable quantity of the powder and specially directed towards testing for magnesium in small proportion, we failed to obtain confirmation of the presence of this metal; and we incline to the view that the precipitates which you regarded as due to magnesium were really due to traces of zinc which had escaped precipitation at the proper stage.

FERRUM.—Note that the sulphur precipitated by the oxidation of hydrogen sulphide is soluble in ammonium sulphide; that boiling the powder with sodium carbonate and water and then filtering did not yield a filtrate free from chromate; that the precipitate formed by adding sodium carbonate to a solution of a chromic salt consists of chromic hydroxide—not of chromic carbonate; and that dilute—not concentrated—hydrochloric acid should be employed in examining the solubility of a precipitate formed by barium chloride.

F. L. TAYLOR.—Your report seems to indicate that you attempted to separate aluminium and chromic hydroxides by digestion in cold solution of sodium hydroxide, but both hydroxides, when freshly precipitated, are easily soluble in the latter reagent. At best, the cobalt nitrate test on charcoal gave only a somewhat doubtful result, since the substance to which it was applied was green to begin with, and the zinc and aluminium yielded further green and blue products intermixed with this.

IONIA.—Chromium was present in the original substance in the acidic condition only. The ammonium and the carbonic acid radical present were considerably more than traces.

JAYJAY.—We failed to obtain indications of the presence of even a trace of lithium.

B. B. DUTTA.—Your method of dealing with the iron-group precipitate left the presence or absence of aluminium an incompletely settled question (see the first sentence of the reply to F. L. Taylor). Although the presence of a soluble chromate apparently suggested to you and others the probable presence of potassium, this metal was entirely absent.

SECUNDUS.—The chloride which you found—apparently in considerable quantity—must have been introduced as impurity in the sodium carbonate employed in preparing the solution to be tested for acid radicals. The precipitate you attributed to barium was probably due to incompletely separated zinc.

T. E. P.—You should have given details regarding acidification, neutralisation, or other treatment of the various portions of the sodium carbonate extract to which you added reagents as tests for acid radicals. In absence of this information it is impossible to be sure that much of your testing was appropriate or effective. You were too easily satisfied regarding the presence of a benzoate.

MELONIA.—When hydrogen sulphide caused the acid solution of the original powder to turn green, owing to reduction of the chromate, a precipitation of sulphur must have occurred, whereas you report "No precipitate." We have been unable to ascertain with certainty from your report how your failure to detect zinc occurred.

PIMENTO.—You obtained a precipitate in the iron group and another in the zinc group. Having detected chromium in the former, you omitted to test for aluminium, and having detected zinc in the latter, you omitted to test for manganese. This is not sufficiently exhaustive examination.

BLIGHTY.—Your report should furnish a detailed account of what you did, what you observed, and what conclusions you drew from your observations. The examination of an unknown substance should be conducted in the systematic manner described in any good modern text-book on qualitative analysis.

LAWTON.—By inference from an observation in your report, you concluded that a solution of the original powder in dilute hydrochloric acid—and containing a chromate—contained iron in the ferrous state. Consider the possibility of this. In the account of the testing for acid radicals your report is incorrect with regard to the effect of hydrochloric and nitric acids on the precipitates produced by barium chloride in neutral and in acid solution. Both precipitates were insoluble in both acids.

PILULA.—In your "confirmatory test for a carbonate" you describe barium chloride as giving a white precipitate soluble in dilute acids, and silver nitrate a white precipitate soluble in nitric acid; but you omit to state, and it is difficult to imagine, what these reagents were added to.

THE ANALYTICAL TOURNAMENT.

The analysis reported upon in the foregoing completes the tournament series for the session, and we are now in a position to announce the awards in this special competition. The number of competitors shows a gratifying increase upon the figure for last year's tournament, no fewer than fifty-three students having participated. The contest has been keen, and excellent work has been done by a large proportion of the competitors.

The first place in the tournament has been taken by "Amethyst" (Mr. Frank Lightfoot, Preston Brook, Warrington) with the very creditable aggregate of 531, made up of 73, 76, 97, 96, 94, and 95, and to him the first prize of books to the value of 2l. 2s. has been awarded, together with a certificate.

The second prize of books to the value of 1l. 1s. and a certificate have been awarded to "Mist" (Miss Gladys Brayshaw, 7 Brook Street, Gloucester), whose aggregate is 503, made up of 72, 73, 88, 85, 91, and 94.

The third prize of books to the value of 10s. 6d. and a certificate have been awarded to "Tyronc" (Mr. Montague T. Watson, 6 Lynton Terrace, West Ealing), who attained an aggregate of 487, made up of 94, 55, 61, 97, 91, and 89.

We congratulate the prize-winners upon the results of their sustained efforts throughout the session, and request them to communicate at once with the Publisher, stating the books which they wish to receive as prizes.

We have to thank the many other students whose participation in the tournament helped to make it a success.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative

DUTY ON SACCHARIN.

In the House of Commons, on May 12, Mr. Dennis Herbert, M.P., will ask the Chancellor of the Exchequer whether, as legislation relative to sugar-taxation has generally applied to saccharin, after September 1, 1919, the Excise duty on British saccharin and the Customs duty on saccharin imported into this country from any part of the British Empire will be 110s. per lb., against 132s. per lb. on saccharin imported from foreign countries.

THE BUDGET.

The income-tax resolutions came before the House of Commons on May 1, and passed in the same form as last year, there being no alterations. In the course of the discussion, Mr. Bottomley suggested a tax on advertisements as an alternative method of raising part of the

money. On May 7 the tea-duty resolutions were discussed, and an amendment defeated to omit the words sanctioning a preference on tea grown in British Possessions. The spirit-duties were also discussed, but no announcement was made in regard to the rebate on medicinal spirits.

THE OPIUM CONVENTION.

On May 7, in the House of Commons, Sir James Agg-Gardner asked the Prime Minister whether, in view of the incorporation of the effectuation of the Opium Convention in the covenant of the League of Nations, and the amendment of pharmacy law which must follow the enforcement of the convention, he is proposing to introduce legislation for that purpose this session.

The Home Secretary replied that instructions have been given for the preparation of a Bill on the subject, but he could not say whether it would be possible to pass it into law this session.

MINISTRY OF HEALTH BILL.

In the course of the discussion on the second reading of the Ministry of Health Bill in the House of Lords on May 1, Lord Buckmaster said the Bill does not go far enough. He would like to have seen some better provision made to enable our knowledge of the laws of health to be extended. One of the most important duties to be undertaken in connection with this Bill was the control of advertisements relating to patent medicines and patent foods. Unless it was done through this Ministry of Health it would never be done at all. The reason was this: The value of the advertisements of these patented articles was so vast that there was no journal which dared expose the mischievous character of these preparations for fear of finding its profit and loss account come out on the wrong side. Some of these patent medicines were deliberately deleterious, and in many cases caused damage to children's health. If the Ministry lacked the authority to deal with this evil steps should be taken to confer it.

EXPORTS OF MORPHIA.

Sir James Agg-Gardner, M.P., on May 7 asked the President of the Board of Trade to state the amount and value of British-made morphia exported in each of the years 1911 to 1918, and, if he can, which are the chief countries receiving such morphia.

Sir Auckland Geddes replied: The quantities and values of British-made morphia and morphia salts registered as exported from the United Kingdom in each year from 1911 to 1918, inclusive, were as follows:

		Quantity	Value
		oz.	£
1911	...	208,546	81,808
1912	...	276,572	151,351
1913	...	406,154	193,354
1914	...	504,020	208,717
1915	...	295,572	200,734
1916	...	225,611	154,544
1917	...	124,593	114,193
1918	...	136,837	170,216

The principal countries to which these exports were consigned included Germany (prior to the outbreak of war), Russia, France, Japan, and (in 1917 and 1918) Canada.

INSPECTING GERMAN CHEMICAL WORKS.

Mr. A. Steel-Maitland stated in the House of Commons that the Ministry of Munitions arranged to send over to Germany at intervals representatives of various British industries. In all, four missions were to be sent in connection with the industries which have been under the control of that Department during the war. One of these was a chemical mission. This has already returned and reported with regard to poison-gas manufacture, and has yet to furnish reports on other matters. It was felt, however, that a commission representing chemical manufacturers should also be sent, with the object of studying German chemical manufactures from a commercial point of view, and arrangements for this were undertaken by the Department of Overseas Trade. Some delay has arisen from the fact that the military authorities stated that it was difficult to make arrangements for parties of more than six or eight at a time, while the Chemical Manufacturers' Association urged that the group of industries concerned could not be adequately represented by a party of less than twenty. A reply has now, however, been received from the Governor of Cologne that a commission not exceeding twenty members can be received at an early date, provided that not less than seven days' notice is given. The Chemical Manufacturers' Association has been advised accordingly, and arrangements are now being made, and the military authorities are anxious to co-operate in every way in their power.

Association Affairs.

Brighton.—A meeting of the Brighton and Hove Association of Pharmacy was held on April 30, the President (Mr. C. G. Yates) in the chair. The Secretary was instructed to send congratulations to Sir William Glyn-Jones on the occasion of his receiving the honour of knighthood. The report of the Conference delegate (Mr. Edgar Jones) was presented. Mr. Hunter expressed his fears, with regard to the future of employers in pharmacy, if minimum wages and maximum hours should be regulated to the extreme. The opinion of the meeting was that pharmacy is likely to get more sympathetic control from a Council composed of experts, representing the various sections of the trade, than would be the case from a Trade Board, with members drawn from every business under the sun. Several members spoke with reference to a resolution moved regretting the long delay of Burroughs Wellcome & Co. in bringing out their new price-list. The Secretary was instructed to forward the resolution to the firm in question, asking that a new list should be issued as soon as possible.

Edinburgh.—A meeting of the Edinburgh Chemists' Trade Association was held in the Pharmaceutical Society's House, 36 York Place, Edinburgh, on April 29. The chair was taken by Mr. W. S. Glass. Messrs. F. Nisbet and J. Noble were appointed auditors, and it was agreed to record congratulations to Sir William Glyn-Jones. The Hon. Secretary (Mr. Brown) said that, with regard to federating Local Associations, what they desired was a Scottish Union for trade purposes. They had been in touch with the Glasgow Association, and with the Executive of the North British Branch. A Memorandum had been drawn up which stated the points of the scheme to be submitted to the General Meeting of Scottish Pharmacists on the following day. He desired to state that there is no intention to set up any organisation rivalling the Pharmaceutical Society. Mr. Glass said the point would be to see how organisation could best be carried out. The Government were apparently endeavouring to force upon them a general Trade Board. Pharmacists, on the other hand, desired to have an Industrial Council. After further discussion Mr. Dick said the meeting should consider giving a mandate in view of the forthcoming general meeting of Scottish pharmacists. It was then agreed to adopt the memorandum as printed on the agenda for the general meeting. The Secretary drew attention to the recommendation that all shops should close for the half-day on April 30. He also intimated that no word has yet been received from the Town Council as to when the 7 P.M. closing order for chemists' shops will come into operation. It was agreed to record a protest against the action of the General Medical Council in restoring the Pharmacopœia, 1914, and so compelling chemists to make camphorated oil with olive oil at a time when this ingredient stands at so abnormally high a cost. In reply to Mr. Reid, Mr. Hill explained that the alteration of War Emergency Formulae preparations containing glycerin or sugar was inevitable, in consequence of the action of the General Medical Council, and panel chemists had been clearly warned of the impending change two months before it was carried out. Mr. Nisbet moved that the Association should protest against the reported proposal to admit apothecaries' assistants to registration under the Pharmacy Acts, and this was agreed to.

London (S.W.).—At a meeting of the South-West London Pharmacists' Association, held on April 29, Mr. John Humphrey (President) in the chair, Mr. Herbert Skinner gave an address on *The Industrial Council in Pharmacy and its Local Application*. He explained the position, indicating why the necessary machinery for dealing with wages, hours, and conditions of labour must be set up. Subsequently Mr. Skinner replied to questions. Among other business, it was decided to congratulate Sir William Glyn-Jones on his recent honour, to support the Proprietary Articles Trade Association in the matter of differential stamp-duties on proprietary articles, and to hold the annual meeting of the Association on May 27.

Manchester.—The annual meeting of the Manchester Chemists' Assistants' Association was held on April 30, the President (Mr. A. Kelly) in the chair. The annual report and balance sheet were adopted. The Hon. Secretary (Mr. E. Abrams) mentioned that thirty-seven new members had joined, and Mr. Eckersall presented the Voluntary Aid Detachment report. The following officers were elected: *President*, Mr. G. S. T. Livesey; *Vice-President*, Mr. D. N. Fullerton; *Treasurer*, Mr. G. B. Hough; *Hon. Secretary*, Mr. W. Jones; *Auditor*, Mr. W. Kirby; *Committee*, Messrs. Abrams, Bramley, Chadwick, Swinn, Yates, Grier, Brettelle, and office-bearers. Messrs. Wm. Kirkby, W. Kirby, and J. Woodhead were elected honorary members.

Oxford.—The annual meeting of the Oxford Chemists' Association was held on April 9, Mr. John Dolbear (President) occupying the chair. The Secretary (Mr. H. C. Goodall) read the annual report and financial statement, which showed a balance of 17l. 9s. 10d. The following officers were elected for the ensuing year: *President*, Alderman C. Clayton; *Vice-Presidents*, Mr. Dolbear and Mr. Swift; *Secretary and Treasurer*, Mr. H. C. Goodall; these officers, together with Messrs. Bellamy, Loxley, Neave, Ransom, the President and Secretary of the Pharmaceutical Society, to form the *Executive Committee*. Alderman Clayton was President also in 1901 and 1906. The President, Mr. Dolbear, and Mr. Loxley were appointed delegates to the British Pharmaceutical Conference. Mr. Goodall reported that the number of Insurance prescriptions dispensed in the city of Oxford during 1918 was 42,759, at an average cost of 7.37d., and in the county 42,394, at an average cost of 7.35d. The sum contained in the collecting-box for the Benevolent Fund of the Pharmaceutical Society was made up to two guineas.

Plymouth.—At the quarterly meeting of the Plymouth Pharmacists' Association, held on April 30, the President (Mr. J. Davy Turner) stated that the Early Closing Order had proved a success, and also that the local contribution to the War Auxiliary Benevolent Fund was very satisfactory, paying tribute as a result to the organising abilities of the late President (Mr. F. Maitland). Mr. John Keall (President of the Proprietary Articles Trade Association) then addressed the meeting on *Price Protection and Fair Values*. He outlined the work of the P.A.T.A., and in the course of his remarks severely criticised the window-show terms offered on certain non-protected proprietary preparations. His views received the support of the meeting, and in a discussion which followed the questions of charging extra for credit; the co-operative societies and their dividends; and the attitude to be adopted towards firms who protected only a percentage of their articles were considered. A resolution supporting the P.A.T.A. in its work towards fair values with adequate profit and towards an improved incidence of the stamp-duty was carried. Mr. Keall then referred to the formation of an Industrial Council.

Sheffield Students.—A meeting of the Sheffield Pharmaceutical Students' Association was held in the Temperance Hall on May 2, Mr. I. Best (President) in the chair. On the motion of the Secretary (Mr. J. E. Billington) a vote of congratulation to Sir William Glyn-Jones on the honour bestowed upon him was passed. It was announced that an appeal is to be made to chemists for financial support, and that arrangements are in hand for a system of classes in the subjects required for the new Qualifying examination. Several speeches were made on the necessity of employers giving their apprentices more opportunities to attend classes. Messrs. Antcliffe, Austen, and Culverhouse, who attended from the senior Society, were thanked for their presence and advice. The President called upon Mr. Culverhouse (President of the local Society) to give an address entitled *Looking Ahead*. Mr. Culverhouse began by expressing the good wishes of the Sheffield Pharmaceutical and Chemical Society for the success of the new Association. He went on to suggest that every local Association should include in its scheme of effort some facilities for the younger men and women of the craft to gather for educational and social purposes. It was necessary that a spirit of comradeship should be fostered in all junior Associations. The best facilities must be provided, preferably under the auspices of the various Universities, and such facilities needed to be provided quickly. The social side must not be neglected. The division of the Qualifying examination should be of great assistance in passing that examination. He hoped that the Bell and Fairchild scholarships would both find a home in Sheffield at an early date. After referring to the recent Conference of Association Delegates in London, Mr. Culverhouse touched on the future relationship of the junior Association with the parent Society, and suggested that a joint meeting of delegates could arrange the best means of regulating the conduct and business of the Association. He also said that he hoped Sir William Glyn-Jones would arrange soon for a meeting of the younger men and women in the area, the older ones not to be invited, and the speaker to address them on the matters of special interest to them. In concluding, he asked that all should join the parent Society in London as soon as they were eligible, should take an interest in the trade papers, and should go in for the students' competitions. To the determined and enthusiastic their future in pharmacy would be a bright one.

Torquay.—A special meeting of the Torquay Pharmacists' Association was held on May 1, the President (Mr. J. Taylor, J.P.) in the chair. A resolution was passed congratulating Sir William Glyn-Jones upon the recent honour

conferred upon him. Mr. John Keall (President of the Proprietary Articles Trade Association) then addressed the meeting on *P.A.T.A. Work and Efforts*. After questions the meeting pledged itself to press for face values on all proprietary articles, and for a profit of at least 25 per cent. It resolved also to support the suggested stamp-duty scheme of the P.A.T.A. Mr. Keall then referred to some Pharmaceutical Council problems. It was decided to invite the County Association to hold its annual meeting in Torquay.

Ucal.—A meeting of the Ucal Federation (London Branch) was held on May 1, the President (Mr. A. W. Hall) occupying the chair. The Treasurer (Mr. Keith) was sanguine of having a record number of members this year. The appointment of the President and Mr. Keith as delegates to the Conference, convened by the board of directors for May 8, was confirmed. It was decided that the delegates should have freedom of action, but it was important that they insist on the urgency of a distributing depot in London. Mr. J. Hearlo (Secretary of the Ucal Federation) dealt with the appeal, recently made from headquarters, to join the Federation as a unit in view of the drastic changes which a Trade Board or an Industrial Council may create, and said the response to the appeal had been fair. He then explained the advantages of linking up with the Federation, and asked for every Ucalite to join. The report of the Sub-Committee appointed to inquire into the suitability of side lines was approved of. Several pharmacists were admitted to membership. At the close of the meeting a vote of confidence was accorded to the two retiring directors, who are seeking re-election.—A number of pharmacists attended the supplementary meeting, convened by the London branch, with the object of obtaining information on the proposed Industrial Council. It was decided that an Industrial Council would be preferable to a Trade Board, and that the Ucal Federation should co-operate, so far as possible, with the Pharmaceutical Society in the matter, without prejudice to the interest of Ucal.

Chemical Society.

A MEETING was held at Burlington House, Piccadilly, London, W., on May 1, the President (Sir James Dobbie) in the chair. Professor J. H. Jeans gave a lecture on *The Quantum Theory and New Theories of Atomic Structure*, in which he developed the modern conceptions of the atom, showing the immense strides that have been made of recent years. The ultimate constituents of the atom are electrically charged particles, and we know more of the negatively charged particles than we do of the positively charged ones. The former are standardised; they may be now a part of chlorine, then be free; they are fundamental and interchangeable. The atom may be regarded as consisting of a positively charged nucleus, surrounded by negatively charged particles moving around the positive nucleus, by comparison the positive nucleus is enormous, and the negative electrons are in proportion mere dots, moving in an orbit at a comparatively enormous distance from the nucleus. The number of negative electrons present is equal to half the atomic weight of the element, which may be expressed as the "atomic number" of the element (*e.g.*, Argon=19, Potassium=20). The hydrogen atom thus consists of a positively charged nucleus, and one negatively charged electron moving round it. Radio-active bodies on disintegrating emit alpha-rays which are positively charged, and always amount to double the amount of negatively charged rays. Thus, the helium atom consists of one alpha-particle and two, in comparison, minute negative particles. The spectrum is a means of elucidating the laws governing the motion of the negative particles in relation to the positive nucleus in each system. If the atom moves by the Newtonian law, then it gives a continuous spectrum, moving towards violet. The laws of motion of the electrons have been studied by the distribution of energy observed in the discontinuous spectrum. Professor Jeans also alluded to the fundamental law of motion in the atom, as advanced by Planck, and to the mechanism of radiation. A change of orbit of the negative electrons gives out energy, and that is radiation, and radiation travels through ether in bundles. It is interesting to note that the conclusions arrived at in this respect by theoretical considerations, and by mathematical methods, were subsequently proved by experiments. In conclusion, Professor Jeans pointed out that when more electrons have been dealt with and more is known about them, this knowledge will open chemistry to the mathematician, and will explain valency, etc. Then chemistry will progress at a terrific rate when the chemist and the mathematician join forces.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," April 16, 1919.)

- "VOLCANO" with circular device of same; for chemicals (1 and 2), medicinal chemicals (3), scientific instruments, etc. (8). By Explosives Trades, Ltd., 6 Cavendish Square, London, W. 1. 386,804/805/806/811. (Associated.)
- "SIBUNION LONNON" on star-shaped device; for chemicals (1) and for food-substances (42). By The Russian Commercial Co., Sibunion, Ltd., 123 Cannon Street, London, E.C. 4. 386,979/978 (Associated.)
- "RENCRETE"; for all goods (1). "QUELLE"; for substances for rendering wood, etc., non-inflammable (50). By S. F. Burrows and H. L. P. Allender, 26-28 Billiter Street, E.C. 3. 387,456/460.
- "SANK" with picture of bird's head sinking in water; for chemicals (1). By J. H. Sankey & Son, Ltd., Essex Wharf, Canning Town, E. 16. 387,753. (Associated.)
- "LIXOID"; for disinfectants for use on concrete, etc. (2). By Baxendale & Co., Ltd., 41 Miller Street, Manchester. 388,009. (Associated.)
- GOSOXOL BRAND A MEDICATED PREPARATION FOR THE TEETH"; for a preparation for use in treatment of roots of teeth (3). By C. Ash, Sons & Co., Ltd., 5-12 Broad Street, London, W. 1. 386,353.
- "MINSTER BRAND" with device of cathedral; for medicines (3). By M. Smith & Co., Ltd., Wharf Hill, Church Street, Kidderminster. 388,126.
- "BETULENA BRAND A BALM"; for an analgesic and curative balm (3). By Handford & Dawson, 1 Station Bridge, Harrogate. 388,184.
- "GRAVITISER" and circular device; for curative exercising tables (11). By The West Gravitiser Corporation, 4177 Third Avenue, New York. 386,246.
- "SANOID"; for surgical instruments, etc. (11). By Cuxson, Gerrard & Co., Ltd., Fountain Lane, Oldbury. 388,706. (Associated.)
- "BREVO"; for food-substances (42). By The Bristol Refining Co., Ltd., St. Philips, Bristol. 387,915.
- "ROXANA"; for goods (48). By The Toilet Supply Co., 4 Marylands Road, Harrow Road, London, W. 9. 388,105.
- "KAPOONRY" under picture of rhinoceros; for waterproof sheetings, etc. (50). By G. W. P. Johnston, 39-41 Upper Rathbone Place, Oxford Street, W. 1. 388,171.
- "GOLD BUG"; for polishes (50). By T. McBride & Logie, 12-20 Ingram Street, Glasgow. 388,258.
- "SHIMROL"; for polishes (50). By W. Edge & Sons, Ltd., 50 Raphael Street, Bolton. 389,024.

(From "The Trade-marks Journal," April 23, 1919.)

- "GRACO"; for goods (1). By Grace Bros. & Co., Ltd., 144 Leadenhall Street, E.C. 3. 385,931. (Associated.)
- "KORKON"; for chemicals (1). By The International Paint and Compositions Co., Ltd., 6 Broad Street Place, E.C. 2. 388,696.
- "DIOX"; for chemicals (2). By The "Sanitas" Co., Ltd., Locksley Street, Limehouse, E. 14. 388,494. (Associated.)
- "NEZENE BRAND A PREPARATION FOR CATARRH AND COLD IN THE HEAD"; for a catarrh and cold preparation (3). By W. S. Bound, The Pharmacy, Park Crescent, Llandrindod Wells. 387,824.
- "COMPOUND SYRUP OF PRUNES," etc., on label with fruit device; for a laxative (3). By Parke's Drug Stores, Ltd., 65 Harwood Street, London, N.W. 1. 388,334. (Associated.)
- "NADCO"; for dyes (4). By North American Dye Corporation, 235 Huguenot Street, New Rochelle, New York, U.S.A. 388,188. (Associated.)
- "TRAGORA" and "TRAGONIA"; for all goods (4 and 48). By The Gum Tragacanth Supply Co., Ltd., Hooton, Cheshire. 388,951/2/3/4. (Associated.)
- "VELVA"; for sanitary towels (11). By Harringtons (London), Ltd., 13 Cheapside, London, E.C. 2. 389,142.
- "TIGER SKIN BRAND" under picture of tiger skin; for toilet paper (39). By French Paperstock Co., Ltd., 34-40 Ludgate Hill, E.C. 4. 388,028.
- "ST. RONTA"; for natural aperient mineral waters (44). By H. Rawson, 38 York Place, Edinburgh. 387,606. (Associated.)
- "VICBLANZOL"; for all goods (47). By V. Blagden & Co., 4 Lloyd's Avenue, E.C. 3. 386,920.
- Device including words "MISS HILLIARD," etc., and hand mirror; for perfumery, etc. (48). By Miss Hilliard, 244 Albemarle Street, London, W. 1. 387,874.
- "VELVORET"; for perfumery, etc. (48). By A. O. Wilson, 56 Nelson Street, South Bank, Yorks. 387,895.
- "TSANG-IHANG"; for perfumery, etc. (48). By J. Grossmith & Son, 29 Newgate Street, E.C. 1. 388,506.
- "JAZZ"; for all goods (48). By "Afa" Chemical Co., Ltd., 19 Hand Court, High Holborn, W.C. 1. 389,014.

(From "The Trade-marks Journal," April 30, 1919.)

- "CIBA SOCIETY OF CHEMICAL INDUSTRY IN BASLE" and device of symbolical figures on cube; for synthetic indigo (1). By Society of Chemical Industry in Basle, 141 Klybeckstrasse, Basle. 389,070. (Associated.)
- "THREE HANDS BRAND" with device of three hands; for goods (2). By United Kingdom Chemical Co., Ltd., Burnside Road, Cathcart, Glasgow. 385,998.
- "FEMAX"; for all goods (2). By J. S. K. Smith, 20 Enys Road, Eastbourne. 387,066.
- "KONAPRO" in English and Russian, with device; for chemicals (2). By Stafford Allen & Sons, Ltd., 7 Cowper Street, Finsbury, E.C. 2. 387,559. (Associated.)

Legal Reports.

Assistant's Agreement.—In the Civil Court at Leeds Assizes on May 5, before Mr. Justice A. T. Lawrence, Mr. J. T. Appleton, chemist, Walkley, Sheffield, sued for an injunction to restrain Mr. Francis Richard Clark on an agreement dated January 3, 1917, from acting as assistant to Mr. Percy Carr, Ecclesall Road, or any other chemist within a radius of three miles from the applicant's shop for a period of three years. The injunction was granted, with costs.

Business Names.—It transpired in the City of London Court last week that a City trader carrying on business under a firm name had failed to register under the Registration of Business Names Act. The Deputy Judge, Sir John Paget, K.C., pointed out that it was a serious matter, and that the litigant was under a penalty of 5*l.* a day while he was unregistered since 1916, which was rather worse than a taxi-meter running on. He would not stop the hearing of the case, because the litigant might have quite sufficient to contend with if he was pulled up about the matter.

Chemical Translations.—In the City of London Court, on May 6, before Sir John Paget, K.C., Deputy-Judge, a foreign correspondent named Attilio De Albertis sued Hay & Co., export merchants, 133 Leadenhall Street, E.C., for 8*l.* for a week's salary and a week in lieu of notice. He said he was engaged by the defendants as a translator at a salary of 4*l.* a week and a commission after three months' work. After working for them for three months he asked to be allowed to go at four o'clock one afternoon, and was refused. He translated into French, Italian, and Spanish. In cross-examination by Mr. Weever, defendants' solicitor, plaintiff said that he was asked by the defendants to translate long lists of chemicals and drugs from French into English. He was not engaged as a general clerk, but as a translator. Before he left he was asked to translate another long price-list. He refused to do it and said it was not his work. William Brunner, defendants' export manager, said he wanted plaintiff to translate a list of chemicals which were going to be offered to the English market. Plaintiff said he did not want to translate it because it contained a number of chemical expressions and names which could not be translated into English. Then plaintiff said he would not do it. Seeing that plaintiff was engaged as a foreign correspondent, if a chemical catalogue had to be sent out and had to be translated it was plaintiff's duty to do it. The defendants told plaintiff if he refused to do the work required of him he could take a week's notice, which he elected to do. The Deputy-Judge found for the defendants, with costs.

Moneylender Case.—In the King's Bench Division, on May 5, Mr. H. Bowen, a moneylender, sued Mr. Van Alstyne and Mrs. F. M. Robinson (trading as Albert & Co., ointment manufacturers, Farringdon Street, E.C.) to recover 275*l.* under a promissory note. Mr. Thorn Drury, for Mrs. Robinson, said she was concerned in the matter as surety. As the proprietor of an ointment business, which was managed by her husband, she received an income up to 2,000*l.* per annum. She became acquainted with Mr. Van Alstyne, who was an officer in the Army, while he was recovering in a nursing home from the effects of an aeroplane accident. He proposed to start a company in his own name for the purpose of importing food from America into England, and, as he wanted money, Mrs. Robinson suggested he should get it from plaintiff. A number of transactions extending over a period of two years were completed between the parties. Plaintiff advanced 350*l.*, and had been paid 360*l.*, which meant that the amount now claimed represented interest. Counsel asserted that to claim 275*l.* interest, or 107 per cent., on such a loan was a harsh and unconscionable transaction, within the meaning of the Moneylenders Act. After further evidence, Mr. Justice McCardie held that the sum of 100*l.* paid into court, which was equivalent to 60 or 70 per cent. interest, was sufficient. He accordingly gave judgment for defendants, who would have the costs from the date of the payment into court.

Chemist's Conviction Quashed.—At Birmingham Quarter Sessions, on May 7, Mr. Frank Harvey Rushton, chemist and druggist, 10 Hall Green Parade, appealed against a conviction under the Sale of Food and Drugs Act, 1875, in respect of camphorated oil (*C. & D.*, March 8, p. 49). Appearing for him were Sir Archibald Bodkin, K.C., and Mr. Graham Milward; Mr. Norman Birkett and Mr. Finnemore were for the respondents. Mr. Birkett having explained the circumstances of the conviction, the City Analyst (Mr. J. F. Liverseege, Ph.C.) gave evidence

of analysis, and, in cross-examination, said it was probable that no proceedings would have been taken if the initial letters "W. E. F." had appeared on the label. Mr. W. T. Rigby (County Analyst) affirmed that paraffin oil was much inferior to the proper oil in regard to its viscosity. Sir Archibald Bodkin: Do you think the Home Office Committee would have recommended a substance which was not equally as good as olive oil? Witness: I should say that if the Home Office was satisfied that paraffin oil was equal to olive oil, when they rescinded the regulations they would have maintained paraffin oil instead of reverting to olive oil. Sir Archibald Bodkin submitted that there was no case to answer. The purchaser asked for camphorated oil, and got an oil which was camphorated. He did not dispute that in ordinary circumstances the chemist must supply an article in accordance with the B.P., but in the period from March 1918 to April 1919 the B.P. did not exist so far as camphorated oil was concerned, because the entry had been eliminated. Appellant had adopted the very substance which was recommended by the distinguished Committee as a war economy. In the absence of an official standard such as the B.P., he submitted that if a man got an oil which was practically indistinguishable from olive oil, with the proper percentage of the real active ingredient—camphor—he was supplying an article which was not to the prejudice of the purchaser, but was, in fact, of the nature, substance, and quality demanded. The Recorder said he took the view that the conviction could not be sustained, and must be quashed, with costs. In the circumstances he was rather surprised that the prosecution had been undertaken at all.

Commercial Travellers' Commission.—An appeal in the case of *Cramb v. Goodwin & Co. (C. & D.)*, March 15, p. 64) was heard in the Appeal Court on May 5. The case raised the important question of whether a commercial traveller was entitled to commission on repeat orders after he had left the service of the employer to whom the customers were introduced. The previous hearing was decided by Mr. Justice Bailhache in favour of the commercial traveller (plaintiff). From this an appeal was made. Lord Justice Bankes, giving judgment, said the issue depended entirely upon the construction of the agreement. He could not help saying that in this class of claim it tended to confuse rather than to assist when a number of cases found their way into the books which turned upon the particular facts of the cases or the particular nature of the documents involved. It made a great difference whether the agreement entered into constituted an agreement of employment or not. In some of the fifteen cases cited at the hearing in this matter the agreement was an agreement of employment, and in others it was not. He did not think it was necessary in this case to decide what exact relationship was created by the agreement, because there were words in it which to his mind plainly indicated that the parties intended to exclude payment of commission after the agreement had come to an end. The case quoted by Mr. Justice Bailhache was not on all fours with this, because here the agreement, as it appeared to him, clearly indicated that the parties intended payment only on orders received during the continuance of the agreement. In his letter the defendant proposed a "salary" of 1*l.* a week and commission. If it had been necessary to decide this case upon the point whether the agreement constituted an employment, it would be material to consider that the defendant expressly used the term "salary." But the plaintiff wrote another letter to make the matter quite clear, stating that he must have commission on "all repeat orders, whether they are actually handed to me or posted on direct to you. . . . It would be unfair to me to have to keep calling upon a firm working up business and then post it on to you." Obviously the plaintiff was speaking of "repeats" which would come into existence during the continuance of the agreement, because he contemplated their being handed to him, and the necessity of still calling on the customers. In these circumstances, the question being one of construction, it was clear to his Lordship that payment of commission was to be on orders received during the continuance of the agreement. The appeal therefore succeeded. Lord Justices Duke and Atkin concurred. The appeal was allowed accordingly, with costs.

Camphorated Oil.—At the East Ham Police Court, on May 6, before Mr. W. J. Grubb (stipendiary magistrate), the proprietors of the Boleyn Drug Stores, 127 Barking Road, East Ham, were summoned, at the instance of the East Ham Corporation, for having, on April 28, sold camphorated oil deficient in camphor. Mr. J. G. Banks, Chief Inspector of Foods and Drugs to the East Ham Borough Council, prosecuted, and Mr. C. H. Kirby, solicitor, appeared on behalf of the defendants. Mr. Wm.

Johnston, Ph.C., Secretary of the Chemists' Defence Association, was present in court. Mr. Banks, in stating the case for the prosecution, mentioned that, according to the B.P. standard, camphorated oil should consist of 80 per cent. olive oil and 20 per cent. camphor. This standard, among many others, he said, was suspended from March 1918 in consequence of olive oil being required for edible purposes during the war, yellow liquid paraffin being substituted for olive oil, the percentage of camphor remaining unaltered. Since May 1, however, the original standards of the B.P. had been restored, and must now be observed, that applying to camphorated oil being included. On April 28 a sample was purchased at defendants' shop which, on analysis, was found to contain only 6.5 per cent. of camphor, or about one-third of the percentage prescribed by the B.P. as necessary. The oil itself was pure olive oil, and not the mineral substitute. Mr. Banks mentioned that on the occasion of the purchase of the sample, a quantity of ammoniated tincture of quinine was also purchased, which, on analysis, was found to be genuine, and a sample of camphorated oil purchased from defendants some time ago was also found to be genuine. Mr. C. H. Kirby, on behalf of the defendants, admitted that an offence had been committed. He explained that an assistant who is only employed at the shop part of the time made up the camphorated oil in the evening before the purchase, using the proportions of olive oil and camphor officially prescribed. The camphor took a considerable time to dissolve, and this fact was mentioned in the B.P. directions. The Stipendiary: Is the camphor not first of all dissolved in spirits of wine? Mr. Kirby: No. That must not be done. Mr. Kirby, proceeding, said that the camphorated oil was made in a tin vessel, and that a different assistant salesman who sold the sample could not see that the drug was not fully dissolved. His Worship probably knew that chemists are at present working under considerable difficulties, and in many instances could only obtain the part-time services of qualified assistants. In this instance the camphorated oil was sold by a different assistant from the one who made it, and who was not aware that sufficient time had not been allowed for the solution of the camphor. The Stipendiary remarked that it was obviously in defendants' favour that the other samples purchased from them were genuine. He asked what the B.P. said relative to the solution of the camphor. Mr. Banks replied that in the case of compound liniment camphor the method of dissolving the camphor suggested by the magistrate would apply, for the B.P. stated that it must be dissolved in alcohol first. Mr. Kirby added that in the process of securing solution in the case of camphorated oil one might not even heat the mixture. The camphor must be gradually dissolved at the ordinary temperature. Mr. Banks remarked that the prosecuting authority did not press for a penalty. In this instance a good purpose would have been served by chemists and others having had their attention directed to the fact that the standards of the B.P. are now restored. The Magistrate imposed a fine of 20s., and ordered the payment by the defendants of the analyst's fee.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

ALBERT HAGON, LTD. (P.C.).—Capital 5,000/. Objects: To acquire the business of chemists, druggists, and opticians carried on at 5 Bute Street, Cardiff, by Albert Hagon.

NORMAN'S PHARMACIES, LTD. (P.C.).—Capital 500/. Objects: To acquire the business of a chemist and druggist carried on by Donald Norman, at 104 Heyworth Street, Liverpool.

MACLEANS, LTD. (P.C.).—Capital 5,000/. Objects: To carry on business as manufacturers and distributors of and dealers in toilet-specialties and druggists' sundries, printers, enamellers, and designers of other goods, etc. Solicitor: H. Pumfrey, 14 Paternoster Row, London, E.C.

BENGER'S FOOD, LTD.—The report for the year ended March 31, 1918, states that after providing for depreciation, directors' and auditors' fees, and income-tax, the trading (including income from investments) resulted in a profit of 56,183/.; 2.803/ was brought forward, making 58,987/. Deducting interim dividends and transferring 5,000/. to advertising and extension of business account and 10,000/. to reserve, there is left 26,987/. The directors recommend a further dividend of 1s. 3d. per share, free of income-tax, on the ordinary shares (making 2s. 3d. for the year), and to carry forward 6,862/.

Birth.

DRYNAN.—At Winwood, Carlake, on April 30, the wife of John F. Drynan, chemist and druggist, of a daughter.

Marriages.

CRIPPS—PRING.—At St. Colman's Church, Dunmurry, Belfast, on May 3, William Lawrence Cripps, M.R.C.S., L.R.C.P., to Vera, daughter of Mr. Henry Grattan Pring (Grattan & Co., Ltd., chemists, Belfast), Beechlaw, Dunmurry.

RIGBY—KIRKPATRICK.—At St. Mary's Church, Lymm, on May 3, William Rigby, chemist and druggist, to Mabel, youngest daughter of Mrs. Kirkpatrick, Lymm.

Deaths.

BUTLER.—At Havenfield, Amersham Hill, High Wycombe, on May 2, Mr. John Harsant Butler, J.P., chemist and druggist, aged sixty-five. Mr. Butler served his apprenticeship in London, and gained further experience with Randall & Son, Southampton. Together with his brother, Mr. W. H. Butler, chemist and druggist, he took over the business of the late Mr. William Judson, High Street, High Wycombe, in the 'seventies. On the partnership being dissolved in 1888, Mr. Butler joined another brother, Mr. T. H. Butler, in the proprietorship of the "South Bucks Free Press." He was prominent locally as a Congregationalist, and had recently been appointed a Justice of the Peace.

CLARKE.—At 124 Crescent Road, London, S.E. 18, on April 27, Mr. William Henry Clarke, chemist and druggist, aged eighty-eight.

CODD.—At South Park, Lincoln, on April 30, suddenly, Mr. William Breeton Codd, chemist and druggist, aged seventy-four. Mr. Codd, who passed the Modified examination in 1869, was with Battle, Son & Maltby, chemists, Lincoln, for upwards of fifty years.

HEPWORTH.—At Springfield, Liversedge, on April 27, Mr. Benjamin Hepworth, J.P. (B. Hepworth & Co., Ltd., manufacturing chemists, Kidderminster and Cleckheaton), aged seventy-four. Mr. Hepworth established his business in 1881. He served on the Kidderminster Town Council for twenty-nine years, and was a well-known Freemason.

JONES.—At Llangollen, recently, the wife of Mr. Humphrey Jones, Ph.C., Castle Street, aged seventy-nine.

JONES.—At Drug Hall, Penygroes, Carnarvonshire, on April 22, Mr. Daniel John Jones, chemist and druggist, aged thirty-two.

JONES.—At 164 Commercial Road, Newport, Mon., on April 27, Mr. John Henry Sumption Jones, chemist and druggist, aged seventy-four. Mr. Jones was in business before August 1, 1868.

MCCAIG.—Lieutenant William George McCaig, R.A.F., Myrtlebank, Gallatown, Kirkcaldy, previously reported missing, is now presumed killed in action in France on October 8, 1918. Prior to joining the Forces Lieutenant McCaig served his apprenticeship with Mr. J. B. McLaren, chemist and druggist, Pathhead, Kirkcaldy, and was for some time with Boots, Ltd.,

PORTWAY.—At 189 Wandsworth Road, London, S.W. 8, on April 15, Mr. Arthur Cyril Portway, chemist and druggist, aged sixty-two.

SMITH.—At Dursley, on April 20, Mr. Harry Robert Smith, chemist and druggist, aged fifty-six.

THOMPSON.—At 3 Grange Crescent, Sunderland, on April 25, Mr. Lawrence Thompson, chemist and druggist, aged sixty-one.

WILKINSON.—At 46 Eleanor Street, South Shields, on April 18, Mr. Robert Consort Wilkinson, chemist and druggist, aged seventy-four. Mr. Wilkinson was in business before August 1, 1868.

OIL-TANKS AND LIGHTNING.—A pamphlet recently issued by the Petroleum Executive contains a memorandum by Sir Oliver Lodge on the protection of oil-tanks from lightning. Sir Oliver sums up against the attachment of any lightning conductor to the tanks, and is inclined to think that "metal tanks, not over-elevated and not specially earthed, with good joints and free from leaks, are as safe as anything can well be, provided the roof and other parts are examined from time to time from the point of view of corrosion, the liability to which may be a question of atmosphere."

Personalities.

MR. G. STEWART DUNN, chemist and druggist, Deal, has been elected a warden of St. George's Church.

MR. H. MEYNELL, chemist and druggist, Tenterden, has been re-elected a warden of the parish church.

MR. ROBERT GLEDHILL, chemist and druggist, Dewsbury, has been elected Chairman of the Dewsbury Board of Guardians.

MR. CHAS. L. HUISKING, of Chas. L. Huisking, Inc., 5 Platt Street, New York, is in London. He is staying at the Savoy Hotel.

MR. E. NEALE, chemist and druggist, Chippenham, Wilts, has been re-elected to the Committee of the Chippenham Cottage Hospital.

A CERTIFICATE OF NATURALISATION has been granted to S. Steen (Russian), 14 Glebe Street, Townhead, Glasgow, chemist's assistant.

MR. PHILIP F. ROWSELL, J.P., who is a Fellow of the Faculty of Insurance, has been elected a member of the Council of that body.

MR. R. T. FORBES, pharmacist, Edgeley, Stockport, has been elected Chairman of the Finance Committee of the Stockport Poor-Law Union.

MR. THOMAS SWALES, druggists' sundriesman, Butts Court, Leeds, has been re-elected people's warden at St. Chad's Church, Headingley.

MR. H. HOVINGH, of the Maatschappij t.v.d.z. Kappelhof & Hovingh, wholesale druggists, Schiedam, Holland, is on a business visit to this country.

MR. GEORGE CLARIDGE DRUCE, M.A., Ph.C., Oxford, is one of six distinguished public men who are to receive the honorary LL.D. degree of St. Andrews University on July 4.

MR. ARTHUR FLATHER, Clerk to the Bradford Insurance Committee, has been appointed to a similar position with the West Riding Insurance Committee, at a salary of 500l. per annum.

We regret to learn that Mr. W. Bates (W. Bates & Co., Ltd., chemists, Southampton) is ill and about to undergo a serious operation. All who know him will hope for his speedy recovery.

It has been arranged that Mr. A. S. Dean, Ph.C., Keighley, and Mr. W. Hayes, Bradford, will be *locum tenentes* for members of the Bradford Pharmacists' Association during the coming holiday season.

MR. E. D. JONES, chemist and druggist, Llangollen, has been appointed representative for North Wales of the Ministry of Pensions. Mr. Jones has filled several public positions locally in connection with Insurance dispensing and other matters.

MR. CHARLES THOMAS WARD, chemist and druggist and dentist, Southwick, Sussex, has been re-elected people's warden at Southwick Parish Church. Mr. Ward has filled this office for twenty-nine years in succession, and during that time has never missed a Sunday morning nor evening service.

MISS ALICE REITA LUND, youngest daughter of Mr. William J. Lund, chemist and druggist, Lancaster, is among the sculptors whose work has been accepted by the Royal Academy of Arts, London. Her statuette, which is the first that she has submitted to the Academy, is entitled "La Brise."

At the Connaught Rooms, London, W.C., on May 6, Mr. David Pugh Jones (Lewis & Burrows, Ltd.) was installed Worshipful Master of the Grosvenor Lodge, 1257; W. Bro. H. C. Gooseman (Vinolia Co., Ltd.) was invested as Junior Warden; and Mr. Charles Brooks (American Drug Supply Co.) and Mr. J. T. Warburton were initiated into the Lodge.

MR. G. E. MARFITT, pharmacist, Leicester, who is a partner in the Danmar Garden Tool Co., has invented a digging appliance known as the "Duzital," which minimises the risk of backache and heart-strain. A customer who has tried it states that with its help he can dig over 900 square yards in a day. (A reference to the prize won by Mr. Marfitt for window-dressing is given on p. 48.)

DR. S. JUDD LEWIS, Ph.C., describes a new sector spectrophotometer in the April number of the "Journal of The Chemical Society." The instrument was designed by Dr. Judd Lewis for the examination of the ultra-violet absorption spectra of blood serum, and is a development of his earlier work, which was described in THE CHEMIST AND DRUGGIST, May 9, 1914, and before the British Pharmaceutical Conference, 1914 (C. & D., July 25, 1914, p. 166).

Trade Notes.

WHITE EMBROCATION.—The General Chemical Co., Queen Street, Wigan, offer an inseparable white embrocation in bulk at 10s. per gallon.

HOMŒOPATHIC TINCTURES.—Keene & Ashwell, Ltd., 6 South Molton Street, New Bond Street, London, W., are booking orders for homœopathic tinctures made with fresh plants for the season 1919.

BUXTON SALTS.—The Buxton Hot-spring Salts Co., 4 Cavendish Circus, Buxton, advertise in this issue the Buxton Hot-spring Salts for which John Thompson & Co., Ltd., Liverpool, are wholesale agents.

"NIOBE" TOILET SPECIALITIES are made by G. Steven & Co., wholesale chemists, Cornbrook Works, Chorlton Road, Manchester. A list of the main products of this firm is given in an advertisement in this number.

VETERINARY MEDICINE-CHESTS.—The prices of Day & Sons' "Original" medicine-chests for animals have been advanced to 1l. 8s., 2l. 12s., and 6l. Other preparations of the company have been increased by 15 per cent.

ENSIGN CATALOGUE.—Houghtons, Ltd., 88-89 High Holborn, London, W.C. 1, have just issued the 1919 edition of the "Ensign" Photographic Catalogue. Those photographic chemists who have not yet received a copy should send for one.

FROZOCLONE.—R. Demuth's Laboratories, 68 Salisbury Road, London, N.W. 6, have increased the price of Frozoclone (solid eau de Cologne) to 3s., P.A.T.A. minimum retail price. The wholesale price has been increased to 25s. per dozen.

SUMMER GOODS.—Mr. H. O. Lloyd, manufacturing chemist, The Holoyd Laboratories, 27 Green Lane, Small Heath, Birmingham, calls attention to three special summer lines—Holoyd lemonade-powders and tablets and "Facena" vanishing face-cream.

EVANS SONS LESCHER & WEBB, LTD., 60 Bartholomew Close, London, E.C. 1, have adopted the 48-hour week, and will close the warehouse and offices on Mondays and Tuesdays at 6 P.M., Wednesdays, Thursdays, and Fridays at 5.30 P.M., and Saturdays at 12.30 P.M.

HYPO PEA CRYSTALS.—The Keene Co., manufacturing chemists, 52 Gray's Inn Road, London, W.C. 1, send us a sample of sodium hyposulphite photographic crystals, of good white colour, which they are able to offer to wholesale buyers at a very favourable price.

SPRATERS CATALOGUE.—W. T. French & Son, St. Mary Street, Ladywood, Birmingham, have sent us a copy of their 1919 catalogue of spraying machines for agri-horticultural and other purposes. The list is illustrated, and includes a wide range of sprayers and spraying requisites.

"MONTERRAT" LIME-JUICE.—Evans Sons Lescher & Webb, Ltd., Liverpool and London, make in our last issue a special offer to chemists in connection with the "Montserrat" lime-juice preparations. The example given in the company's advertisement shows a profit of 28½ per cent.

ETHYL CHLORIDE.—Hedley & Co. (Leytonstone), Ltd., 129 Harrow Road, Leytonstone, London, 11, the first makers in this country of ethyl chloride on a commercial scale, are developing the use of that chemical, and with this object have issued a useful series of pamphlets giving particulars of the properties and uses of this liquid. Besides the employment of ethyl chloride as an anæsthetic there are many technical applications of its properties as a solvent and refrigerating agent. One point which is emphasised is that ethyl chloride is not a particularly dangerous liquid to handle, and when this is appreciated many more uses may be found for it. In regard to the medicinal employment we are interested in a series of "Dridustols" preparations consisting of solutions of medicaments in ethyl chloride which sprayed on the skin deposit a uniform dry film of the medicinal agent. The list of Dridustols is a long one.

Information Department.

INFORMATION WANTED.

140/39. "Renolave" hair-tonic (The Palmera Co.)	144/40. Solution beral
140/36. Dr. Horton's or Holton's solution for influenza	144/39. Papillon beauty food
142/72. "Asos Sacrum" bed-pan	144/41. "Eucariet"
144/46. "Cinesaria"	135/71. "Lyktol," a veterinary preparation
144/40. "Escopyria"	146/4. "Auto" inhaler
	140/23. "Astral" tents
	140/23. "Excelsior tents"

Observations and Reflections.

By Xrayser II.

The Honour Done

to our Secretary by the bestowal upon him of knighthood reflects but indirectly upon pharmacy, for it is not his services to us but those he has rendered to Government that have earned him this distinction. That he has served us well, too, is, however, a good reason for congratulating him heartily. It is scarcely a matter for thanks that Government, when we ask it for bread, gives us a knight, but we may hope that this rise in his social status will add power to Sir W. S. Glyn-Jones's elbow in the circles in which such things count, and we may be sure that if this prove so he will use his increased influence on our behalf.

The Conference,

upon the whole, may be commended as the most successful of the series so far, both in the quality of its discussions and as regards the results arrived at. There is little or no fault to be found with its decisions on important matters, and not much time was wasted in arriving at them. It was not the fault of the Conference that the organisation scheme submitted to it is so inadequate, while it is to its credit that the resolution on the election of Council was strengthened as it was. It is, I suppose, hardly likely that action will be taken to secure Parliamentary sanction for a change before another Conference meets, by which time (as I said last week) a more liberal measure of territorial representation may be feasible. Even if it prove otherwise we may welcome the accepted scheme as a step in the right direction.

The Chief Business

of the second day was the consideration of National Insurance terms. The discussion of this subject was a little confused at times, and the intervention of Mr. Mallinson was required to straighten things out. Against such intervention, with the Chairman's sanction, there is, of course, nothing to be said; my remarks on the subject last week referred only to controversial speeches. It is, however, desirable that such guidance on legal and technical matters as is required should, so far as possible, be conveyed through the chairman himself; the very appearance of an attempt to influence votes on questions of policy by those who are not voters should be avoided. The conclusions arrived at on the tariff question were sound and sensible; we could hardly hope for better terms than it is proposed to ask for, and we cannot accept worse. A ballot of panel chemists is the best way of deciding what to do if our terms are rejected.

Mr. C. T. Allen's Paper

on the cost of dispensing, though admirable in its main contention, is open to several criticisms. I object on principle to such a thorough commercialising of our system of charging. This is how the plumber and bricklayer make out their bills. Cost cannot, of course, be altogether ignored; it will often have to be taken into account; but as a rule it is neither necessary nor desirable to pursue the elusive decimal to the last point of vision. Again, Mr. Allen's figures will always be variable, and often disputable. No invariable sum can ever be fixed for "overhead charges," even if the prices of ingredients and containers do not vary, as they always will. Mr. Allen's figures in the example he gives show that such charges are apt to be arbitrary. He prices sod. salicyl. 5ij., 1d.; pot. cit., 5ij., 2d.; but the wholesale price of the latter in the first list I take up is only 2d. per lb. more than that of the other. I am persuaded that, after all, the system in vogue fifty years since is preferable; we took account of exceptional cost only, and not of that unless it was very exceptional, but were guided mainly by the quantity dispensed or the number of doses, the charge (whatever it was) being made to include overhead charges and a professional fee.

Your Article

on Pharmacopœial nomenclature reminds me of one, by an eminent writer on scientific nomenclature, which I read the other day. It was a complaint that the extremely technical phraseology of most modern scientific treatises makes it impossible to understand them without a preliminary study of scientific terminology involving as much labour as the acquisition of a foreign language, the result being that the average man loses all touch with science, and very often all real interest in it. In Huxley's day it was still possible so to treat a scientific subject as to attract and almost to compel attention, but thanks to minute specialisation and a meticulous care for accuracy of statement it is so no longer. This, the writer said, is a real loss, and may have the result of deterring many who are by nature inclined to the study of science from entering upon it. The worst of it is that scientific terminology is always changing: what is accepted to-day is obsolete to-morrow, and conveys either no meaning at all or a misleading one to the neophyte. This is, I suspect, especially true of chemistry.

In his Letter

of last week "L." says the N.E.D. "declares emphatically that it [the word *χημεία*] was afterwards etymologically confused with the like-sounding *χύμεια*." What the dictionary actually says is this: "The word is explained by most as 'Egyptian art,' and identified with *χημία*, Gr. form (in Plutarch) of the native name of Egypt (land of *Khem* or *Khamè*, 'black earth,' in contrast to the desert sand). If so [my italics] it was afterwards etymologically confused with the like-sounding Gr. *χύμεια*." Mahn is afterwards cited, however, for the suggestion that *χύμεια* was probably the original, "being first applied to pharmaceutical chemistry, which was chiefly concerned with juices or infusions of plants," but was afterwards "associated with the ancient name of Egypt, and spelt *χημεία*, *χημία*." My statement that the word originally referred to pouring, infusion, and that *χημία* does not mean "the black art" was based mainly on this passage, which, with Skeat's Concise Dictionary, were before me when I wrote. From Skeat, again, "L." quotes only so much as serves his own purpose. In the 1887 edition of his book (the only one I possess) Skeat thus derives the word, "Late Gk. *χημεία*, chemistry; for *χυμεία*, a mingling—Gk. *χέειν*, to pour out, mix." Confusion is here implied, but the pharmaceutical view is accepted, which is all that matters to us pharmacists. This is my last word to "L." I must leave it to my readers to decide whether he reports his authorities the more accurately, or I.

The Future of Medicine

is the subject of an interesting article by Sir James Mackenzie in the "Contemporary Review." The gist of the article is a complaint of the neglect in hospital practice of the first symptoms of ill-health—that is, of those "subjective sensations" of which pain is the most universal and significant. It is not, as a rule, until physical signs are apparent and actual damage to tissues has set in, that hospital practice begins, and since research takes its rise mainly in hospital and post-mortem work the initial stages of disease, in which its causes and the conditions in which it originates could most profitably be studied, escape the attention of the scientist properly so called. It is the general practitioner, not the scientific specialist, who knows most of these (or has the best opportunity of knowing), but unfortunately he has neither time to undertake research work as such nor influence with those upon whom its encouragement and organisation depend. We are tacitly told that if preventive medicine is to advance, the study of the physical signs of disease which has been the chief feature of medical science for the last fifty years must to some extent give place to research into its origin as this may be traced from its initial stages. This is not an altogether novel idea—there has been a movement in this direction for some years, and it will no doubt continue; nor is it perhaps the last stage of medical science.

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Editorial Articles.

Spirit Matters.

THE announcement made by the Chancellor of the Exchequer last week of the increase of 20s. per proof gallon in the Customs Excise duty on spirit has considerably perturbed distillers and rectifiers up and down the country, and various meetings expressing disapproval have been held; but the prospects of a successful opposition to the increase are poor. What the spirit trade objects to is the strict control on withdrawals from bond, which is hampering manufacturers (especially the smaller ones) in many directions. It may be recalled that at the end of March a new Order (No. 23, 1919) was issued by the Customs and Excise, limiting the quota of deliveries during the month of April to one sixth the quantity allowed under the authority of the Advisory Committee to be delivered in the six months ending September 30, 1919, which ratio is considered altogether inadequate to meet the existing scarcity. The Order was, of course, issued to prevent forestalling the Budget increase, but at the present high duties and the small quota allowed there is no inducement to forestall, and the consequence is that some of the smaller users of spirit for manufacturing purposes have been

caught short and have had to go without. Prior to the war we were able to give prompt official information regarding the various Orders issued by the Customs and Excise Department, but for some reason these Orders are now regarded as copyright and not to be published, so that correct and prompt information is difficult to obtain. The proposed changes in the taxation of spirits and beer are shown in the following table:

	Existing Duties	Proposed Duties
	£ s. d.	£ s. d.
CUSTOMS:		
Spirits:		
*Brandy, the proof gallon ...	1 10 4	2 10 4
*Rum ...	1 10 4	2 10 4
*Imitation rum, the "proof gallon ...	1 10 5	2 10 5
*Geneva " ...	1 10 5	2 10 5
*Unenumerated, sweetened, etc., the proof gallon ...	1 11 6½	2 11 6½
Unenumerated, not sweetened, the proof gallon ...	1 10 5	2 10 5
*Liqueurs, cordials, etc., not sweetened, and not shown to be unenumerated, if tested, the proof gallon ...	1 10 5	2 10 5
Liqueurs, cordials, etc., in bottle, not to be tested, the liquid gallon ...	2 1 11	3 8 10
*Perfumed spirits, the liquid gallon... Additional duties are charged on immature spirits ...	2 8 4	4 0 2
The duty on articles containing or made with spirit will be increased in proportion ...	—	—
Beer, mum spruce, or black beer:		
Of a specific gravity—		
Not exceeding 1,215°, for every 36 gals.	10 2 0	14 2 0
Exceeding 1,215° ...	11 16 8	16 10 5
Other sorts—		
At gravity of 1,055°, for every 36 gals. And so in proportion for any difference of gravity.	2 10 6	3 10 6
* If imported in bottle, extra per gallon	1 0	1 0

Preference:

Duties on foreign spirits to be increased from September 1 by an additional duty of 2s. 6d. per proof gallon on enumerated spirits and on other spirits in proportion.

Immediately the increased duty was announced, wholesale druggists met, and acting on the assumption that they would be allowed abatement to the extent of the increase, they decided to make no change in the prices of spirituous preparations for medicinal purposes, but on non-medicinal preparations it was decided to advance prices by 5s. per lb. Early in the week definite information was received from the Customs and Excise by Wm. Ransom & Son, Ltd., manufacturing chemists, that a clause would be inserted in the Finance Bill making provision for abatement on medicinal spirits equal to the further increase in the tax. At the time of writing this stage has not been reached in the House in Committee of Ways and Means, but in practice it should mean a total abatement of 35s. 9d. per proof gallon (i.e. 15s. 9d. plus 20s.). It is distinctly understood, however, that before spirit is supplied to a manufacturer the full duty of 50s. per proof gallon has to be paid and that the refund may be a matter of several months. In view of the Budget increase of 20s. per proof gallon on spirit, there is a movement on foot among the wholesale perfumers to approach the Government asking for the concession of duty-free spirit for the home trade, or to be put on the same terms as wholesale druggists and manufacturing chemists in regard to abatement. This is a matter which only affects the home trade in perfumery, as the largest perfumers work in bonded factories, the goods leaving the premises without paying a penny to Customs or Excise, while the smaller exporter obtains a drawback on the duty-paid spirit, although he may have to wait several months before he gets it. It has been suggested that the situation would be improved if the Government would allow six months' credit to perfume manufacturers of the duty chargeable on spirit, but the suggestion is not likely to commend itself to the authorities. Naturally prices of popular lines of perfumery have been

raised by retailers, and the Perfumers Section of the London Chamber of Commerce met on Wednesday to consider what steps they will take. Undoubtedly the home trade in perfumery has been very prosperous during the war in spite of the fact that the retail prices have been doubled and even trebled in some instances. The exports of perfumery from France have been well maintained during the war, but whether the raising of the Customs duty from 2l. 8s. 4d. to 4l. 0s. 2d. the liquid gallon will have a deterrent effect on imports into Great Britain remains to be seen.

South African Influenza Epidemic.

SOME idea of the special difficulties in combating epidemic diseases in our Colonies is supplied by an examination of the Report of the Influenza Epidemic Commission of the Union of South Africa, which has just come to hand. The Commission was appointed by Lord Buxton to inquire into the probable causes and possible prevention of the epidemic which created such havoc, particularly among the native population, in September 1918. When one considers that, according to the official statistics, there were 2,616,805 cases in a total population of 6,115,212, and that of these cases 5.32 per cent. were fatal, it will be seen that stringent investigation was justifiable. The Commission commenced its labours at Pretoria in December, 1918, and sat afterwards at Johannesburg, Durban, Pietermaritzburg, East London, Bloemfontein, Kimberley, and Cape Town successively, examining in all 192 witnesses. The bulk of the witnesses were medical men, mayors of Corporations, etc., and we can only find that two chemists were consulted—Mr. Henry Sinclair, "farmer and chemist," Fort Beaufort, and Mr. F. Carter, Bloemfontein. As a result of their investigations, the Commission finds that there is reason to doubt that *Bacillus influenzae* (*B. Pfeiffer*) or any of the other organisms so far found associated with cases of epidemic influenza (or "Spanish influenza") are the true causative agents of epidemic influenza. Certain authorities hold that an ultramicroscopic virus may be the cause. Although the epidemic may have been prevalent in the country entirely independent of any introduction of infection from outside sources, the evidence before the Commission indicated that outside infection was a deciding factor in precipitating the epidemic. There is strong suspicion that ships infected with epidemic influenza introduced the infection by both the Western route from Europe and Sierra Leone, and the Eastern route from countries East and North of South Africa, and this belief is strengthened by the fact that the earliest date that can be fixed for the outbreak in the Union is September 14, 1918, in the vicinity of the harbour area at Durban. In this connection the Commission regrets that no concerted international action was taken at an early stage, and suggests the establishment of an international organisation for the rapid dissemination of authoritative information regarding epidemics. The weight of expert evidence, however, is decidedly against the effectiveness of maritime quarantine in a disease of the nature of epidemic influenza, in spite of the experience of Australia. According to a telegram sent by the Governor-General of the Commonwealth to the Governor-General of the Union quarantine measures were given the credit for restricting the epidemic considerably in Australia. All ships from South Africa, New Zealand, Fiji, and other infected countries near Australia were quarantined for seven days after arrival, with daily thermometer parades and daily inhalation with steam plus 2 per cent. zinc sulphate solution. In case of infected ships, immediate removal of patients, daily thermometer parades, daily inhalation, and inoculation with vaccine were resorted to. The measures taken to combat the disease in South Africa were (besides the quarantining of ships) warnings to magistrates, local authorities, and the public generally, regarding methods of prevention, advice regarding treatment, and the manufacture and employment of a polyvalent vaccine. The evidence of bacteriologists and medical men in regard to the utility of present-day vaccines is, however, so controversial that the Commission cannot make definite recommendations in

that connection. As a matter of fact, Dr. Watkins-Pitchford, Director of the South African Institute for Medical Research, Johannesburg, states in a memorandum that

It is entirely unjustifiable, in the present state of our knowledge, to claim that any bacterial vaccine confers any protection whatever against epidemic influenza. He thinks, however, that adequate doses of a comprehensive (Lister's 3-group) pneumococcal vaccine may possibly be useful in preventing pneumonic complications, and be of service where such have arisen. This latter opinion is endorsed by Dr. Willmot, Assistant M.O.H., Cape Town, and by Dr. Robertson, Government Bacteriologist, who report that the results of a mixed vaccine (influenza bacillus, *Pneumococcus mucosus*, *Micrococcus catarrhalis*, and Friedlander's pneumobacillus) are encouraging, especially as regards the prevention of secondary pneumonia and the reduction of mortality. In a notice issued by the Department of Public Health, Pretoria, it was recommended that treatment should be begun with a dose of castor oil or other purgative, plenty of milk and hot drinks should be given, and, in severe cases, especially in old persons, small doses of stimulants every two or three hours. "There is no specific cure for the disease, but quinine in small doses, aspirin, and similar drugs are useful." The principal recommendations of the Commission adumbrated a general mobilisation of medical, surgical, sanitary and hygienic forces to fight such epidemics in future. One paragraph (too strong for three of the members of the Commission, who dissented from it) went so far as to recommend that Government, in the presence of a widespread epidemic threatening great loss of life, should, in addition to having the power of commandeering supplies, buildings, etc., take to itself the emergency power of requisitioning the services of any person required to combat it.

The Peace Treaty.

WE notice in a draft of the Peace Treaty that

The Commission will also have the option of requiring Germany to deliver with a maximum limit of 50 per cent. of the total stock all kinds of dye-stuffs, chemicals, and quinine and other pharmaceutical products, this being deducted as usual from the total debt.

This, if true, is an important statement, and further details are anxiously awaited. In fact, a definite official pronouncement should be made by the British Government at once as to their policy in regard to future German trading. Much of the hand-to-mouth business which has prevailed in this market since the signing of the Armistice six months ago is due to the lack of a policy by the Government. The question is, what German chemicals will be allowed to be imported? A large British industry in fine chemicals has been built up since the war and directly encouraged by the Government, who gave certain promises of protection. British firms are now looking for a measure of security, and certainly do not expect to be exposed to the full force of German competition when peace is declared. Some indication ought to be given at the earliest possible moment, as buyers are much exercised in their minds and much business for forward delivery is held up. An interesting provision in the treaty is that Germany must ratify the Opium Convention of 1912 and agree to bring it into force. Germany is not to be allowed to interfere with the special war measures of the Allies in regard to enemy-owned patents.

WHAT IS A PHARMACIST?—A pharmacist is not a druggist. A druggist is a merchant in drugs, a dealer in substances which, though originally used in medicines, came to be used in many other arts. The pharmacist, synonymous with pharmaceutist and apothecary, but not with druggist or chemist, is an educated, qualified practitioner of the art of pharmacy. He is a dealer in substances used to prevent and relieve distress; who has the knowledge and skill to secure a proper quality in his merchandise; to prepare this for its ultimate uses; and to secure it against accidental and criminal misapplication. The druggist is a merchant like the grocer, the dry-goods dealer, etc. The pharmacist may be all this, but must be very much more.—*Edward R. Squibb.*

Chlorine and Cocaine in Art.

ALTHOUGH, as one might expect, the predominant tone in this year's Academy is khaki, there appears, nevertheless, to be a revulsion by a not inconsiderable section of exhibitors in favour of scenes of peace and beauty, principally English landscapes. This relief is grateful and comforting even to the non-technical visitor, whose cult is pharmacy rather than High Art. Of course, the picture of the year—Sargent's "Gassed" (120)—depends on chemistry for its origin, but it is a permanent record of the prostitution of chemical science to the basest uses, and the effect is harrowing. It occupies almost the whole of the western wall of Gallery No. III., and represents (as all the daily papers have told) a frieze of gassed soldiers being led blindfolded away for treatment, while the front of the picture is taken up with other blindfolded men lying writhing in agony, and the background with another squad playing football. It is lent (together with a series of lurid munition-making pictures by Anna Airy) by the Imperial War Museum. Another oil which captures the popular imagination is also a pharmaceutical subject—"Cocaine" (248)—by Alfred Priest. This depicts a young man in his shirt-sleeves, apparently "doped," with his head on his wife's lap. The misery in the woman's face tells the wretched story. One turns with some professional curiosity to "The Love Philtre" (54), by Sir Edward Poynter—particularly seeing that it is repeated in water-colours (708)—but one finds only a nude maiden standing on a rock with a hag in the background preparing the philtre by heat in a brazier, and reciting the incantation to her client. Another picture which "breaks the word of promise to the hope" is "Myrrh, Aloes, and Cassia" (303), by the Hon. John Collier. The eager chemist, scenting "shop," is disappointed to find merely the usual gorgeous Oriental arrangement of a houri on a divan with an Ethiopian holding up for her inspection gorgeous raiment, "smelling of myrrh, aloes, and cassia out of the ivory palaces whereby they have made thee glad." But if he is careful the pharmacist will have a "find" among the water-colours. Over the very ordinary title of "Interior of an Old Shop" (769), Lucy E. Pierce has made a clever and effective picture of an ancient apothecary's surgery. A corner of the dispensing-counter is given, with the proper accessories, such as small ointment-jars, confection-pots, and old-fashioned shop-rounds (but which includes an abnormal number of glass graduates) as foreground. Over the doorway leading to the room beyond is the legend, "Bleeding, Cupping, and Tooth Drawing." Hung alongside is, appropriately enough, a portrait of "Theo. B. Hyslop, Esq., M.D." (768), by P. A. Hay. Other portraits of medical men include "Lieut.-Gen. Sir Alfred Keogh" (243), by Arthur Hacker; "The late Dr. David Little Operating for Cataract" (270), by Harold Speed; "Surgeon-Colonel Attwood Thorne" (494), by Percy R. Craft; and "Edwin Rayner, Esq., M.D., F.R.C.S." (630), by A. T. Nowell. Among the oils is a winter scene (12), by J. Coutts Michie (whose brother is a London chemist), and among the drawings is a "St. George" medallion, by Frank M. Taubman (who is a chemist as well as an artist). In the Architectural Room the President of the Academy, Sir Aston Webb, exhibits (together with Maurice E. Webb) "Groups of Proposed Sussex Cottages" (1393), and a "Memorial War Shrine, St. Bartholomew the Great, E.C." (1436), as well as a scheme for the "Victoria and Albert Museum" (1432), by himself. Some of the war memorials are very fine, one in particular among the sculpture in the Central Hall being a sketch model, one-eighth full-size (1499), by Sir W. Goscombe John, for Port Sunlight. Particular interest attaches to the dainty statuette "La Brise" (1569), by Alice R. Lund, who is the daughter of a Lancaster chemist.

Wills.

MR. ALFRED PHILIP BAKER, chemist and druggist, 190 Ditchling Road, Brighton, who died on March 20, left property of the gross value of 894l. 11s. 3d., of which 195l. 10s. 3d. is net personalty.

MR. JOHN MORGAN RICHARDS, Steep Hill Castle, Ventnor, Isle of Wight, who died on August 11, left property of the value of 69,116l. 8s. 1d., the net personalty being 45,498l. 16s. 6d. The testator leaves one-fourth of the property in trust for each of his sons, John Morgan Richards and Nelson Mortimer Richards; one-fourth in trust for his daughter, Dorothy Christiana Prendergast, for life and then for her son Jeffery; and the remaining one-fourth to his grandson, John Churchill Craigie.

Pharmaceutical Society of Great Britain.

Council-meeting.

A MEETING of the Council was held on Tuesday, May 6, at 16 Bloomsbury Square, London, W.C. All the members were present, and the chair was occupied by Mr. W. L. Currie, the President.

The minutes of the meeting held on April 2 were read and confirmed.

THE LATE MR. S. R. ATKINS.

THE PRESIDENT, in submitting a resolution expressing the Council's regret at the death of Mr. S. R. Atkins, Salisbury, remarked that the reference he had made at the last meeting to the sad event had been rather spasmodic because of its unexpectedness. He did not think that in referring to the loss which pharmacy had sustained by the death of Mr. Atkins he could add to anything which had been mentioned in the pharmaceutical Press. He therefore moved:

That this Council learns with regret the death of Mr. S. R. Atkins, who, during a career happily prolonged beyond the average period of activity, freely gave to the Society and to pharmacy the results of his knowledge, his experience, and his culture. As a Councillor for thirty-one years, Vice-President of the Council, Treasurer, and President, he served his generation with conspicuous grace and ability; and his calling has reason to remember with gratitude the shrewd judgment, the whole-hearted devotion, and the administrative insight which he brought to bear upon the pharmaceutical problems of the day. The Council, recalling his singular charm of manner, his gift of cultivated expression, and his varied attainments, feels that the memory of Samuel Ralph Atkins will always occupy an honoured pre-eminence in the history of the Society which he loved and served so well.

THE VICE-PRESIDENT formally seconded the resolution.

MR. CAMPKIN and Mr. WHITE supported it, and the Council, understanding and in silence, adopted the resolution.

CONDOLENCES.

THE PRESIDENT said he had also to express the deepest regret of the Council at the deaths of three prominent members of the Society. The late Sir William Crookes, an honorary member, who died on April 4 at the advanced age of eighty-six, was known to all for his remarkable reputation for scientific and scholarly attainments. The late Mr. J. H. Matthews, to whose death reference should have been previously made, was very prominent in pharmacy in the county of Essex. He did excellent service for his calling in that county. Then the Society had suffered a great loss by the death of Mr. G. W. Udale, who for fourteen or fifteen years had acted as a local Secretary. The Council deeply sympathised with the relatives, who now mourned the loss of these most estimable members.

CONGRATULATIONS TO THE SECRETARY.

THE PRESIDENT remarked that he could not allow the opportunity to pass without making some reference to the high honour which had been bestowed upon one who was not only a member of the Society, but also its most important official. (Applause.) When they saw the intimation that the honour of knighthood had been conferred upon their Secretary and Registrar, members of the Society were afforded the greatest satisfaction. Mr. Glyn-Jones had been known to pharmacy for a great many years—more prominently for twenty years—and the least he could say was that the honour had been well earned and that it would be worthily sustained. (Applause.) Members of the Council and of the Society must feel a reflected glory which had come to their Secretary. But it would make no difference to Glyn-Jones whether he was Sir or plain Mr. William. It was their sincerest hope that he would be long spared to enjoy the distinction which was about to be conferred, and in the future to render his best services to pharmacy as he had done in the past. (Applause.)

THE SECRETARY, who on rising to reply was received with applause, said that the remarks made by the President only formed another instance of the kindness, courtesy, and, he might add, forbearance which he and his colleagues on the Council had always shown to him, and he wished them to believe that for it all he was very grateful. About thirty-four years ago, he supposed, pharmacy gave him his chance, and if there was any ground whatever for pharmacists thinking that he had "made good," he was more than gratified.

THE PRESIDENT expressed the opinion that it was the wish of the Council as well as of members of the Society that a permanent record should be made of the unique honour conferred upon one of their officials. He therefore proposed:

That this Council tenders its heartiest and most sincere congratulations to Sir William Glyn-Jones, Secretary and Registrar of the Society, on the honour recently conferred upon him in recognition of his Parliamentary and public services, and desires to express to him the gratification which every member of the Council feels, in common with every other person associated with British pharmacy, that to the estimation of his work and worth in pharmaceutical affairs has now been added the endorsement of public approval and the confirmation of his Majesty the King.

MR. WHITE formally seconded the resolution, which was unanimously adopted.

ANNUAL ACCOUNTS.

The annual statement of accounts, together with the auditors' report, were then considered, the SECRETARY stating that they had been circulated to all the members of the Council.

MR. WOLFF submitted that the by-laws provided for a certain method by which the annual statement of accounts should be submitted. This, he contended, had not been adhered to in this particular instance. He strongly objected to the annual financial statement not coming before the Finance Committee in the orthodox and proper manner, and asked for a ruling on the point.

THE TREASURER (Mr. Bilson) stated that on the occasion of the last meeting of the Council the statement of the annual accounts had not arrived from the printers. Before the proceedings of the meeting commenced he went round the table and requested every member of the Finance Committee to meet for a few minutes in another room at the conclusion of the Council business. That invitation was extended to Mr. Wolff among the others. At the close of the meeting he went round the table and for a second time asked the members of the Committee to meet, and on this occasion of receiving the invitation Mr. Wolff agreed to it. The Finance Committee subsequently met in the Secretary's room and passed the accounts.

MR. WOLFF said that as no minutes of the meeting referred to by the Treasurer existed, he presumed that no meeting had been held. Another point, however, which he desired to mention was that the statement submitted on the occasion of the meeting alluded to was for perfunctory discussion, and was not actually the statement now before the Council. The statement as it now appeared had never been before the Finance Committee, had never been accepted or passed by them, and was, strictly, out of order. It seemed incredible that neither the Council nor the Committee should have had an opportunity of discussing the financial report in the form in which it was now submitted.

THE TREASURER replied that the whole of the accounts were before the Committee, and had been passed with the exception of the portion relating to the income and expenditure of the Local Associations Executive.

MR. HINES, without wishing to raise any controversial matter at that point, stated that at the more or less Sub-Committee meeting of the Finance Committee he distinctly objected to the annual financial statement, as then tabled, containing no particulars with regard to the finances of the Local Associations Executive, although, as they were informed a month ago, they formed part of the general funds of the Society.

MR. WOLFF asked for a ruling on the point whether the Finance Committee had the power to alter any document drawn up in the office and presented to them, and whether it was in order, while the Council were assembled, for a Sub-Committee or members of a Sub-Committee to absent themselves and hold a meeting in another room.

THE PRESIDENT: If they chose to, surely; no doubt at all, without any doubt at all.

MR. WOLFF: Then I desire to protest that I, as a member of the Committee, was not asked to attend the meeting to pass the statement of the financial accounts of the Society.

THE SECRETARY explained that the responsibility for the delay lay entirely with the officers. The accounts, at ordinary times, should have been presented to the auditors about a month before they actually were. But the Council were fully aware of what had transpired during the past two or three months. The work had enormously increased, and there had been no addition to the staff to cope with it.

MR. SKINNER asked whether the various investments of the Society, as they appeared in the accounts, were estimated at their par or present market values. This question, he remarked, had frequently been submitted by members at annual meetings. Last year there was, if not

a promise, at least half a suggestion that the investments would in future appear at their actual market value.

The PRESIDENT: They are put down here at cost, I think. Mr. HINES thought it was important that the Finance Committee should have the point mentioned by Mr. Skinner brought up for consideration.

Mr. WOLFF deprecated the necessity for there being an eleventh-hour discussion on such an important subject as the statement of the annual accounts. His grievance was that he had not been able to see the document till then.

The PRESIDENT: When did you receive it, Mr. Wolff?

Mr. WOLFF: At nine o'clock this morning. I have been out of town. (Cries of "Ah!") He asked whether the amount of 25,000*l.* stated in the account would, in the opinion of the officials, be a sum amply sufficient to cover the cost of dilapidations and the expenses the Society would be put to when the lease of their premises ran out. As instances of the necessity for entering the value of the investments of accumulated funds at the present market value, Mr. Wolff stated that Metropolitan Water Stock, entered at 1,509*l.* 7*s.*, was at the present time only worth 1,198*l.*, whilst Port of London Authority stock, entered at 2,000*l.*, was only worth 1,663*l.* to-day. In cases like these, investments should be entered at their actual values, so that members should know exactly what the assets of the Society amounted to.

Mr. CAMPKIN said that, speaking from what little actuarial knowledge he possessed, he was of opinion that any valuation of investments short of the quinquennial period would be of little service in the direction indicated by previous speakers.

ELECTIONS AND RESTORATIONS.

By resolutions formally moved and seconded, it was agreed that sixty-three persons be elected members, that 207 be elected student-associates, that 342 be restored to the Society, and that two names be restored to the Register of Chemists and Druggists. The Secretary reported that since the last meeting he had registered 404 persons as apprentices or students.

CORRESPONDENCE.

The Secretary read a resolution forwarded by the Secretary of the Hampshire Pharmacists' Association, and passed at a meeting held at Winchester on March 19, to the effect that the War Auxiliary Benevolent Fund should only be expended on men who have served with the Forces who were *bona-fide* apprentices or assistants in 1914, or pharmacists in business who were called up, and whose businesses had suffered on account of the war. Referred to the War Auxiliary Benevolent Fund.

A letter was read from the Privy Council, forwarding a copy of a report by Dr. A. P. Luff on the examinations held by the Society in London during the year ended March 31, 1919.

Resolutions in opposition to the proposed admission of apothecary assistants to the Register of Chemists and Druggists were read from the Coventry, Hull, and Huddersfield Associations.

A letter was read from the Secretary of the Pharmacy Board, Brisbane, stating that numbers of young men arrive in the Commonwealth of Australia who had passed the usual period of apprenticeship required in Great Britain, but had no articles of apprenticeship indicating that they had served their apprenticeship, or certificate from the Secretary or any person connected with the Council of the Society. This, the letter went on to say, was a distinct hardship to the young men concerned. It was resolved to refer the letter to the Examinations Committee, who, the Secretary mentioned, were considering the subject matter at that moment.

DEMOBILISED STUDENTS.

A letter was read from the Secretary of the Macclesfield Pharmacists' Association forwarding a resolution in which surprise was expressed that students who had, on demobilisation, commenced, or who wished to commence, preparation for the Minor were unable to obtain financial assistance from the War Auxiliary Benevolent Fund, and expressing also the opinion that this is grossly unfair to those assistants who had made arrangements for pursuing their studies and who had good reason to expect substantial help from the Fund.—Mr. PARRY said he was rather surprised that at that time of day such a letter and such a resolution should have been forwarded by any Association considering that during the present year the War Auxiliary Benevolent Fund, through the Council, had distributed something over 1,000*l.* to students who had commenced their studies, and that in not a single case had assistance been refused where

application for assistance under the circumstances had been made.—Mr. J. HARCOTTE-CRFF was glad to hear Mr. Parry's statement, because he had been informed that young men who wished to commence their studies now had been put off till October.

VENEREAL DISEASE PROPAGANDA

A communication from the St. Helens Chemists' Association stated that at their previous monthly meeting Ref. C.L. 31 was discussed. The Association protested against being associated with any venereal diseases propaganda, but at the same time submitted to the notice of the Society that any dispensing done in such institutions should be at once placed in the hands of qualified chemists. In their own town alone an enormous amount of dispensing was taken out of the hands of pharmacists by different clinics. Until such time as this was put a stop to members of the Association were not disposed to take any action as to 1 and 2 of C.L. 31, considering that if they did so it would ultimately lead to further trade being taken away from them.—Mr. SKINNER, regarding the matter raised in the letter as what he described as one of the major questions now engaging attention, suggested that the whole of it should be referred to one of the principal Committees. The growth of clinics of various kinds had been enormous, and a tremendous amount of money was being spent on them. At the present time great numbers of demobilised soldiers were being packed on to hospitals for no other purpose than that of having their prescriptions dispensed. It seemed to him that if the interests of demobilised soldiers, many of whom would require medicine for years to come, were to be properly served, the dispensing should be done by chemists and druggists, and not be under the control of public institutions.—Mr. PARRY, in moving that the whole matter be referred to the Ministry of Health Committee for consideration and report, stated that in Liverpool the growth of clinics had been enormous. There was a tendency at the present time, in public hospitals supported by the rates, to supply medicines and to take money for them over the counter, the hospitals thus becoming rate-subsidised shops in opposition to the chemist and druggist.—Mr. DEAKIN, in seconding the proposition, mentioned that in some instances clinics were becoming places at which even food was being distributed at the public expense. It was about time that such a serious question as the one raised by the letter from St. Helens should be taken seriously in hand by the Ministry of Health Committee.—Mr. SKINNER rather deprecated reference to the Ministry of Health Committee, on the ground that it was limited in its membership, and seldom met.—Mr. ROWSELL took exception to Mr. Skinner's observation, stating that the Committee named met frequently and when there was necessity.—Mr. SKINNER: There was a recent meeting at which only two members attended.—Mr. ROWSELL: And I have attended every meeting of the Committee, but I was not present at that one. (Laughter.)—After further discussion it was agreed that the points raised in the letter from the St. Helens Chemists' Association be referred to the Ministry of Health Committee, and that Mr. Skinner be added to that Committee.

AWARDS OF PRIZES.

The report of the Secretary stated that a report had been received from the Dean regarding the usual prize examinations at the termination of the Major course, and recommending that the following awards should be made:

Botany.—Silver medal, Constance E. Pearson; certificate of honour, Dorothy Yapp, Penelope B. Pearce.

Chemistry.—Silver medal, Dorothy Yapp; certificate of honour, Elsie Woodward, Constance E. Pearson.

Practical Chemistry.—Silver medal, Dorothy Yapp; certificate of honour, Constance E. Pearson, George R. Boyes.

Materia Medica.—Silver medal, Dorothy Yapp; certificate of honour, Elsie Woodward, Penelope B. Pearce.

The examiners in the Council Prizes Competition (Messrs. Frisch, Hampshire, and Peck) reported that there were six competitors, and that three candidates obtained the requisite number of marks, as follows:

Pereira Medal.—George R. Boyes.

Silver Medal.—Dorothy Yapp.

Bronze Medal.—Elsie Woodward.

A formal resolution was passed confirming the awards.

INDUSTRIAL COUNCIL.

Included in the report of the Secretary was a statement to the effect that he had attended the adjourned Conference of the Delegates from all the distributive trades on April 24. As a result of that Conference a letter covering a draft definition of the distributive trades for the purpose of the application of the Trades Boards Act had been sent to the representatives of the trades present at

the Conference. This letter, received from the Ministry of Labour, and dated April 29, stated that the draft definition was intended to indicate the scope of the trade within which the decisions of the Trade Board or Trade Boards would apply, and invited amendments or suggestions with a view of making the definition as convenient and practical as possible, having regard to trade arrangements and practices. It further stated that the Minister of Labour has power under one Order to set up as many Trade Boards as might be required to meet the needs of the trade defined in that Order, and that the settlement of the definition would leave open the question as to the number of Trade Boards required. In accordance with the wish of the Conference, it was proposed to obtain the nominations of the organisations in the various sections of the distributive trade for membership of the Trade Board or Boards with a view to the discussion by those representatives of the question as to the number of Boards required. The Council were invited to forward their observations within three weeks in order that the points raised might be considered as early as possible.

Mr. SKINNER, after stating that he did not want the Council and himself to be working at cross-purposes in connection with the definition relating to chemists and druggists, remarked that the organisation he represented had been called upon to offer recommendations and suggestions relative to that definition in the same way as the Council had been. At his request a meeting of that organisation had been postponed because it was thought the Council might perhaps raise some objection to the wording of the clause excluding chemists, and that his organisation might work in harmony with them. Obviously that wording was insufficient to cover all the circumstances. He knew what forces were at the back of the movement to get a large section of the departmental stores within the Trades Boards, and this would happen unless they by some definition could have absolute jurisdiction over them. What he most desired was that the Council should agree to a definition that would be acceptable to his organisation.

The SECRETARY explained that the definition given in the official communication was one for which no one connected with pharmacy was responsible. So far as he was aware, it was put there by a Government Department.

After some discussion the Council resolved itself into Committee and deliberated in private. No announcement was made in public as to the decision they arrived at regarding the official definition on which suggestions and recommendations were invited by the Ministry of Labour.

APOTHECARIES' ASSISTANTS.

The PRESIDENT moved a resolution embodying the following by-law:

Persons who, before January 1, 1921, make application, in the prescribed form, to be registered, without examination, as chemists and druggists, provided they produce evidence satisfactory to the Council that (a) they had before the 21st day of December, 1908, obtained under the provisions of the Apothecaries Act, 1815 (Section 17), a certificate of qualification to act as an assistant to any apothecary in compounding or dispensing medicines; (b) they had been for a period of seven years immediately prior to the date of their application continuously employed as whole-time dispensers engaged in the compounding and dispensing of medicines, either in charge of the department or on similar responsible duties, in an institution approved by the Council for this purpose; shall be so registered, without examination, upon payment of a registration-fee of fourteen guineas, provided that the Council may refuse to register any person so applying if, on grounds to be stated by them, they are of opinion that the applicant does not possess the necessary skill, qualification, and fitness to be so registered. The form and method of application and the institutions to be approved for the purposes of this by-law shall be prescribed by regulations to be made by the Council, and approved by the Privy Council.

Speaking in support of the resolution, the President said he desired specially to accentuate the fact that it had only been after very prolonged, serious, and careful deliberation that the decision had been arrived at to ask the Society to adopt the by-law he now proposed. He thought the thanks of the Council were specially due to Mr. White for the very great and active interest he had taken in the matter which it covered. That gentleman had negotiated matters with the Privy Council extremely well, and as he said when President, it was essential for the Society in this instance to give something in order to get something. Personally, he thought Mr. White had made a very good bargain with the Privy Council if the Society could carry the thing through to a successful conclusion. The President said he hoped the Council would advise the Society to pass this by-law, which will be read presently for the first time, and he felt confident that if they can get this thing out of the way it will simplify the position very much indeed.

Mr. WHITE, in seconding the adoption of the resolution, remarked that they had to go a very long time back in order to realise how the matter arose. The Act of 1908 was admitted to have been very valuable in consolidating pharmaceutical interests, and without it they should by this time have been in a very awkward and difficult situation. Unfortunately something slipped in at the last moment. Everyone knew about the new form of the extra provision which was introduced by the Government at the time. At the time the Act was passed, Mr. White went on to say, the representatives of the Council dealing with the matter did not see, and could not imagine, the position which would arise in the interpretation which the Privy Council now put upon that particular section. They regarded the provision as purely permissive, and they took good care to secure legal advice which supported that view. Unfortunately the Privy Council with whom they had to deal took an entirely different one. They did their best to convince the Privy Council that they were wrong, but without success, with the result that they found themselves in an *impasse*. They came to the conclusion that so long as this lasted the affairs of the Society and of pharmacy would be in a difficult situation, and that it would be impossible to secure any future legislation or any alteration in matters affecting pharmacy with the interminable question always arising. As a matter of practical politics, they considered how best it was to get rid of it. Broadly speaking, the effect of the resolution would be to get rid of the difficulty once and for all at a very reasonable cost. It to some extent involved a sacrifice of principle, and he admitted that he was now eating his own words, but he was doing so in the interests of the Society.

Mr. SKINNER, disclaiming any intention or desire to score off any members of the Council, submitted that the proposed by-law settled nothing at all further than satisfying a few clamant individuals in the County of London. The fact that they were going to bring in anything up to 150 of these was incidental and accidental, but the Association which had been kicking up such a dust for the past ten years over this matter was a very small affair. They could count its members on the fingers of the two hands. He contended that the proposed by-law did not wipe out the claims made by the Privy Council. The fact that they specified a certain date within which claims for admission must be made did not alter the fact that others might clamour for admission and sit on the doorstep of the Privy Council Office asking for it. If they did not get a sympathetic hearing from the present Privy Council, how were the Council to know that they might not get a sympathetic hearing from the House of Commons when any new legislation was put forward? He submitted that during war-time pharmacy had been indebted to the apothecaries' assistants of this country—very greatly indebted to them. (A Voice: "Shame!") He also submitted that the time had arrived when they should deal with the whole question in a statesmanlike manner. He therefore moved that it be referred back to the Committee to deal with the whole question, and see whether some solution could not be evolved for settling it.

Mr. WOLFF asked whether the power of making by-laws in terms of Section 4 of the Act of 1908, admitting to the Register the persons specified, was compulsory or permissive? He also asked whether the question of the admission of qualified military dispensers was likely to come up in an acute form if the proposed new by-law passed into law, and what guarantee the Council had that the admissions it would authorise would be final?

The SECRETARY, answering the first question, said that the Council had always maintained that it was entirely within their discretion whether they made the by-laws referred to in the section or not. The position was that the Privy Council said that the opposition to the Act of 1908 which came from a certain quarter was, at the last moment, compromised by the Government in order to allow the Bill to go through, and that it was in consequence of the Government agreeing to the section mentioned that the opposition of those acting for the apothecary assistants at that time was withdrawn and the Bill was allowed to pass. So that, whilst it was within the discretion of the Council to pass or not pass the by-laws mentioned in the section, the Privy Council said there was an obligation upon them to exercise their discretion by passing the by-law. With regard to Mr. Wolff's second question, it was quite possible that, whatever might be done that day, any section of the community not covered by the proposed by-law might consider they had a claim for admission. It might be that qualified military dispensers might make such a claim, but it had never been started or supported. He suggested that as the War Office had now officially recognised in their own Army Council Instructions the distinction between pharmacists and Army compounders, it would be almost impossible for

the Army compounders to make that claim. The War Office did, during the passing of the National Insurance Act, attempt to have provisions made in regard to Army compounders, but in consequence of the negotiations, of visits paid by officials of the War Office to their examinations, and to the present Chairman of the School Committee, that claim was abandoned. An answer to the third question might be given in these words: "So far as it is possible for the existing holders of office to give an assurance binding upon their successors, such an assurance was definitely given that if the proposed by-law and regulations become operative they would be regarded by the Privy Council as a fulfilment of the obligation the Privy Council had held was imposed under Section 4 of the 1908 Act upon the Pharmaceutical Society to make a by-law for the purpose of registering without examination."

Mr. WOLFF contended that there is nothing in the proposed by-law which said that by adopting it the Society had fulfilled its obligation, nor was there anything to prevent other applications for admission being made.

The SECRETARY pointed out that if it became operative the proposed by-law would complete the Society's obligation, and it ceased to be operative after January 1, 1921.

Mr. HINES, in seconding Mr. Skinner's amendment, expressed the opinion that, notwithstanding the information afforded by the Secretary, the suggested by-law would not give finality to the matter. It would create a most dangerous precedent, and it should give them reason to pause.

Mr. CAMPKIN, after stating that he was in a position of great difficulty with regard to the question at issue, said that as a result of communications he had received from various parts of the country, he had no other course open to him than that of supporting the proposal for reference back. He had neither seen nor heard of any relaxation in connection with examinations for the medical profession or in connection with examinations for degrees of any kind. In view of the receipt of communications from all parts, he felt that he would not be justified in voting for the passing of the by-law proposed. He believed that in the case of hundreds, it might be thousands, of men who had undergone the curriculum and undergone studies involving great expense to secure their qualification, there would be strong feelings of jealousy if the by-law were passed. If he might speak personally, he would say that he had three sons, every one of whom had passed the series of examinations both in connection with pharmacy and with a degree. They were representative of a class of men who would feel jealous because of the proposed departure from the ordinary conditions attached to admission to the Register.

The PRESIDENT read the amendment as submitted in writing by Mr. Skinner, as follows:

That it be referred back to the Law Committee, with the recommendation that they should consider the whole question of apothecaries' assistants in order to try to find a solution.

He did not regard the amendment as a good one, because it simply proposed that the Committee should do what it had already done. No one regretted more than he did the fact that they had yet to compromise on this matter. (Hear, hear.) After all he did not think they were going to concede very much, and with regard to the storm of opposition which it was said would be raised by those who had passed the Qualifying examinations, he did not think the people who talked in that way, or even made suggestions in that direction, had any conception of the conditions that were attached to the proposed by-law. When these facts became common property they would put a different complexion on the whole thing.

Mr. WOLFF said he was not now so confident as he had been that the Council were absolutely compelled to pass the proposed by-law, and asked if the Secretary would say that they were actually compelled to do so.

The PRESIDENT replied that they had thought all along that Section 4 (b) of the Act of 1908 was a permissive section, but they had been told distinctly that it was a compulsory one, and that the Society must exercise their discretion by passing the by-law.

In order that a full explanation of all the circumstances relating to the question raised by Mr. Wolff might be given, it was agreed that the Secretary should be permitted to give this in Committee.

Mr. DEAKIN remarked that as one of the younger members of the Council he disclaimed responsibility for having anything to do with, or being implicated in, what transpired relative to the passing of the Act of 1908. At the same time he had to face facts, and he believed that to delay taking steps in the way indicated by the resolution would be dangerous.

Mr. GUTHRIE said he knew what the opinion of the average man of the country was upon this question just as well as

other gentlemen. But it was their business on the Council to give their votes in general on the information that was afforded them. None of them liked to pass the resolution before them, but he feared they would have to do this, as they often had to do many other things, because they could not help it.

Miss BUCHANAN stated that there is a degree of dissatisfaction among the women pharmacists regarding the question. As they were very largely engaged in institutional work, it came very much home to them. Knowing what she did as a member of the Council, knowing what the majority of the members of the Council did not know, she would vote for the proposed additional by-law, but she would ask that one little statement should be made which, she thought, would go far towards helping the women pharmacists to look at the question from a different point of view; it was that they as pharmacists, as well as members of the Council, individually deplore the necessity for the by-law, and that they did not want to give away their qualification any more than any other pharmacist did.

On a division three members supported the amendment and fourteen the resolution. A request that the vote should be recorded having been made and supported by the requisite number of members, a division was taken, Messrs. Skinner, Hines, and Campkin being the minority.

On being put as a substantive resolution, the by-law was read a first time.

The Council adjourned at 7 P.M. till the following morning.

The meeting was resumed on Wednesday, May 7, when Mr. W. L. Currie, the President, again occupied the chair. All the members were present with the exception of Mr. Sargeant.

ANNUAL MEETING.

It was resolved, on the motion of the President, seconded by Mr. White, that the annual meeting of the members of the Society should be held on Wednesday, May 21.

PHARMACISTS IN THE ARMY.

The Secretary read the following report by the President, as chairman of the deputation who waited on the Director-General of Medical Services regarding the position of pharmacists who join the R.A.M.C.:

The Director-General of Medical Services was communicated with in accordance with the resolution passed on March 5, 1919. On April 2 he received a deputation from the Council; the deputation was introduced by Mr. W. J. Uglov Woolcock, M.P. The Director-General, as the result of a long conference, expressed his regret that there had been a misunderstanding, and instead of asking the representatives to meet his officers on the basis of the previous conferences decided to appoint a Joint Committee of officers from the Department and of the nominees of the Society to go thoroughly into the whole question and submit to him a joint report. The deputation came away satisfied that Sir T. H. J. C. Goodwin is generally anxious to meet as far as he possibly can the views which have been put before him on behalf of the Society, and in view of the fresh material and evidence which is available as the result of partial demobilisation. I am sanguine that the already strong case submitted to the War Office by us will be made even stronger, and that there is reasonable hope, as the result of the status of the Society's representatives on the proposed Committee, of great improvement in the service resulting. The members of the original Committee were Mr. Edmund White, Mr. A. H. Jenkin, Mr. E. A. Atkins, and the Secretary. I suggest that the Council should consider the advisability of asking Major E. S. Peck and Major G. W. Harris, whose pharmaceutical and military experience would be invaluable, to act on this Committee; as Mr. Atkins since his appointment was commissioned and is still in the Service he might feel some diffidence about serving. The former Committee consisted of four members; there would probably be no objection to its increase to six.

The President added that the deputation were very well received, and were greatly indebted to Mr. Woolcock, M.P., for the way in which he introduced them. He believed the D.G.M.S. was anxious that negotiations with his Department on the points at issue should be carried to a greater success, and it was too evident that there had been a misunderstanding on the occasion of the previous conferences.

The report was adopted, and it was agreed that the Committee dealing with the subject should consist of Mr. E. White, Mr. A. H. Jenkin, Major Peck, Major Harris, and the President.

BENEVOLENT FUND.

The report of the Benevolent Fund Committee recommended grants in four cases of amounts varying from 10*l.* to 26*l.* They also announced the deaths of two annuitants, one of whom was elected in 1917 and the other in 1918.

WAR AUXILIARY BENEVOLENT FUND.

The report of this Committee, submitted by Mr. Parry, contained recommendations that grants should be made and assistance rendered in a number of cases, and all these were agreed to.

FINANCE COMMITTEE.

The financial statement for the month showed that the receipts under the General Fund, including a balance at last meeting of 5,872l. 9s. 3d., had amounted to 8,776l. 11s. 1d. They included the following items: Penalties and costs, 65l. 4s. 6d.; "Journal" and publications, 49l. 4s. 5d.; registration fees, 751l. 16s.; restoration fees, 2l. 2s.; school fees, 33l. 18s.; subscriptions, 1,885l. 16s.; examination fee, 1s.; ground-rent, 95l. 5s.; and dividend on water stock, 19l. 14s. 11d. Deducting payments amounting to 3,542l. 11s. 3d. authorised at last meeting, there was a balance of 5,233l. 19s. 10d. The other balances were: Benevolent Fund (current account), 603l. 7s. 3d.; Benevolent Fund (donation account), 75l. 13s. 7d.; War Auxiliary Benevolent Fund, 4,220l. 9s. 7d.; and Orphan Fund, 141l. 13s. 3d.

The report of the Finance Committee of May 6 recommended payments amounting to 1,170l. 0s. 7d., that 3,000l. of the balance standing to the credit of the War Auxiliary Benevolent Fund be placed on deposit, and that 2,000l. on the Benevolent Fund Donation Account be invested in War stock.

The report of the Committee was adopted without comment.

LOCAL ASSOCIATIONS COMMITTEE.

The report of the Local Associations Committee of May 6 embodied recommendations on resolutions of the Conference which required immediate action. The most important of these was the recommendation that local Associations should make such alterations in their rules as will provide that only retail proprietor pharmacists should be members, all others to be retained as associate members, without power to vote at the election of the L.A.E. or on matters referred to the Association by the Industrial Council.

Mr. JENKIN proposed the following resolution:

That existing local Associations be constituted local branches of the Society, and that they be requested to encourage the setting-up of separate employers' and employees' associations for the purpose of the formation in each area of a District Industrial Council.

A lengthy discussion ensued, as a result of which the resolution was sent back to the Committee for further consideration.

MINISTRY OF HEALTH.

The SECRETARY reported that an intimation had been received from the Medical Parliamentary Committee, 20 Hanover Square, to send a representative to attend a Conference between that Committee and other organisations at Westminster on May 2. There being no opportunity to consult the Council he asked Mr. Chater to attend for the purpose of ascertaining what took place, and of explaining if necessary that the Council of the Society had not yet had the proposals of the Committee brought to their notice. It was stated that on this Committee pharmacy would be represented by a member of the Pharmaceutical Society of Great Britain and a member of the Pharmaceutical Society of Ireland.

After some discussion it was resolved that in the event of an invitation being received to appoint a representative of the Society on the Committee named Mr. Rowsell be requested to act, and that the Secretary should co-operate with him should a second representative be acceptable by the Committee.

CO-OPERATIVE SOCIETIES AND INCOME-TAX.

In terms of previous notice Mr. WOLFF moved:

That this Council deprecates the non-payment of income-tax by co-operative societies, inasmuch as they are purely trading concerns.

Mr. KEALL seconded the resolution, which was adopted by a majority after a brief discussion.

A DEGREE IN PHARMACY.

Miss BUCHANAN, in terms of previous notice, moved:

That it be referred to the Library, Museum, School, and House Committee to approach the appropriate authorities with the view to the establishment of a degree in pharmacy of the University of London.

She expressed the hope that on some future occasion she might have the opportunity of saying something on the subject. On the present occasion she simply asked the Council to endorse the idea which her proposal embodied. She hoped the Committee to whom it would be referred would give great thought to the suggestion for the foundation of such a College of Pharmacy as would be acceptable to the University of London in the very near future.

Mr. GIFFORD seconded the resolution, which was unanimously agreed to.

Trade Report.

42 Cannon Street, E.C. 4, May 8, 3 p.m.

THERE is a distinctly healthier tone in the chemical and drug markets, and business generally is decidedly brisker in many directions. The sagging movement in pharmaceutical chemicals has not yet been arrested, especially in those of which a surplus exists in makers' hands, this affecting articles like aspirin, salicylates, and benzoic acid. Cocaine and barbitone are cheaper. Bromides are slightly easier, but there is a good seasonable demand. English and Japanese refined camphor are dearer. Citric acid is in good demand, tartaric acid is steady, and cream of tartar is nominal. Codeine and morphine salts are easier in sympathy with the opium situation. Quicksilver is unexpectedly 1l. dearer, and mercurials will follow the advance. Phenacetin has had a marked rise, as stocks are being worked off. Acetic acid is cheaper. Rectified spirit and absolute alcohol are dearer on the Budget announcement; while non-medicinal preparations containing spirit have been advanced. Among drugs and oils, balsam tolu is firmer, likewise menthol; areca and golden seal are cheaper; ergot and buchu are still very scarce; good colocyath is firmer. Florentine orris and liquorice-juce are lower. Lime oil and lime-juice are cheaper. Linseed and rape oils are dearer. Canary, caraway, coriander, and fenugreek seeds have been in much better demand, and are all higher. In our editorial columns reference is made to the draft Peace Treaty in relation to the future imports of German chemicals.

Higher	Firmer	Easier	Lower
Aloes (Cape)	Balsam tolu	Acetic acid	Areca
Camphor (Jap. ref.)	Colocyath, apple	Apomorphine hyd.	Barbitone
Canary-seed	Menthol	Benzoic acid	Cocaine
Caraway-seed	Phenacetin	Camphor oil (Jp. white)	Codeine
Cardamoms	Pimento	Cinnamon-leaf oil	Lime-juice
Coriander-seed		Cuttlefish-bone	Liquorice-juice
Ergot		Gentian	Morphine
Farina (Jp.)		Hydrastis	Myrrh
Fenugreek-seed			Nux vomica
Honey			Orris (Flor.)
Ipecacuanha (M. G.)			
Linseed oil			
Quicksilver			
Rape oil			
Rhubarb			
Shellac			
Spirit preps. (non-med.)			
Spirit vini rect. and absolute alcohol			
Wax, veget. (Jap.)			

Cablegram.

NEW YORK, May 8.—Business is fair. Opium is lower at \$12.00 per lb. Wintergreen oil is dearer at \$6.75. Buckthorn bark is lower at 22c. Senega is higher at \$1.25. Copaiba is cheaper at 62½c., and buchu has been reduced to \$1.65 for short. Belladonna-leaves are lower at 45c.

ACETIC ACID.—Prices have again eased owing to the very keen competition by holders of stocks. Trading in pure acid is rather behind hand owing to the cold weather. The price for glacial is down to 85l. per ton, and 80 per cent. pure is 75l. per ton on the spot.

ACETONE in drums is obtainable at 100l., and acetone oil at 85l. per ton.

ACONITE has been in better demand, with Japanese offering at 70s. on the spot.

ALBUMEN is steady at 4s. on the spot for Chinese egg, and at 3s. 8½d. c.i.f. for May-June shipment.

ALCOHOL.—The first-hand price of spirit for perfumers and essence manufacturers remains unchanged at 5s. per proof gal. net in bond, delivered. The increase in the Excise duty from 30s. to 50s., plus the surtax of 1s. 6d. per proof gal. on immature spirits, brings the total duty to 51s. 6d., so that the current quotation is 56s. 6d. per proof gal., duty paid, delivered. Wholesale druggists have advanced their prices for rectified spirit by 20s. per proof gal., which is equal to 31s. 6d. for 90 per cent. alcohol, or, say, 3s. 10d. per lb. No change has been made in the price of spirituous medicines like tinctures, infusions, extracts, etc., as abatement will eventually be given equal to the amount of increased taxation—i.e., 15s. 9d., plus

20s., equal to 35s. 9d. All non-medical preparations containing spirit have been raised by 5s. per lb.

AMIDOPYRIN remains firm at 65s. on the spot and 60s. to come forward.

ANISE OIL, STAR, is quiet, with spot sellers of "Red Ship" at 4s. 6d.

ANTIMONY.—The restrictions on the importation of crude regulus and sulphido have been removed by the Board of Trade.

APOMORPHINE.—Hydrochlor. crystal is rather cheaper, makers offering at 65s. per oz.

ARECA.—Genuine is offered at a reduction of 5s. per cwt.—i.e., at 95s. on spot.

ASPIRIN.—Nothing appears to be offered below 5s. per lb. for spot parcels, but orders for quantity for forward delivery can be negotiated at somewhat less.

BALSAM TOLU is firmer in the U.S.A., and the spot value is now 6s. to 6s. 3d. per lb., according to holders; nothing offered at auction.

BARBITONE.—With a continued light demand the spot price has receded to 50s. per lb.

BENZOIC ACID.—The increased production in U.S.A., combined with the prospect of a larger quantity of English make being available shortly, prevents any large buying, and a small hand-to-mouth business has been done at 6s. per lb.

BROMIDES.—Quite a revival in the demand has taken place, but prices if anything are on the easier side, and 2s. 6d. has been paid for granulated potash and 2s. 9d. for crystals, 2s. 9d. to 3s. for ammonia, and 2s. 4d. to 2s. 5d. for soda.

BUCHU.—Market is quite bare of stock in first-hands, as the American purchases direct have absorbed the bulk of the supplies. Small consignments are expected shortly, and they are anxiously awaited. Second-hands quote a limited quantity of bronzy round at 8s., and ovals at 7s. 9d. per lb.

CALUMBA.—Privately market is steady, with sales of fair natural sorts at 90s.

CAMPOR (REFINED).—Japanese 2½-lb. slabs are firmer, with spot sales at from 9s. 3d. to 9s. 6d.; 1-oz. tablets have been sold at from 10s. to 10s. 3d. and ¼-oz. at 10s. 6d., while a limited quantity of 20 to the lb. offer at 10s. English flowers are dearer at 9s., bells at 9s. 3d., and tablets at 9s. 6d.

CANARY-SEED has advanced in price considerably during the past week, principally owing to a large export demand. On Wednesday good Morocco sold at 155s. per qr. on the spot, and at 140s. c.i.f. terms for shipment.

CARAWAY-SEED.—Morocco and Tunis on the spot are dearer at 120s. per cwt. owing to the difficulty of getting any shipped from Holland.

CASCARA SAGRADA.—Nothing offered at auction; privately 110s. is quoted on the spot, but for two- to three-year-old 112s. to 115s. is wanted. The landings in London during April amounted to 5 tons and the deliveries to 6 tons, leaving a stock of 32 tons, against 43 tons in April 1918.

CHLORAL HYDRATE.—The Customs duty remains unchanged at 1s. 9d. per lb., and it looks as if buyers need have no apprehension of a further reduction in crystals at present, the spot price being 5s. 3d. per lb. *in bond* and 5s. to arrive.

CITRIC ACID is still in good demand, market being steady at 4s. 4d. In the drug-auction, 45 kegs Italian (dry stained) sold without reserve at 3s. 4d. per lb.

COCAINE has been the subject of keen competition, with the result that the price of hydrochloride is about 1s. per oz. lower at 33s. per oz.

CODEINE.—Makers have reduced their quotation in sympathy with the easier situation in opium. Pure crystals offer at 28s. per oz. and the salts at 24s. per oz. net.

COD-LIVER OIL.—It is difficult to hear of any actual business being done in new Lofoten oil, and it seems singular that the Norwegians have not come forward with definite proposals for business this season on the usual scale. With the principal period of consumption drawing to a close one wonders if they will "miss the market." The catch appears to be making fair progress. Actual spot oil continues scarce. Our Bergen correspondent writes on April 9 that the official report states the following results of the cod-fisheries up to April 26:

	1917	1918	1919
Catch of cod (millions)	21.6	14.9	17.2
Yield of c.l.o. (hect.)	31,750	15,120	22,760
Liver for "raw" oils (hect.)	3,220	3,470	2,110

COLOCYNTH.—Good white Syrian apple is now held for 1s. 9d. and dull for 1s. 6d., as several parcels have lately been cleared. Pith, on the other hand, is plentiful, and prices have been reduced to 1s. 3d. to 1s. 7½d. as to colour.

CORIANDER-SEED.—Holders of 1918 crop on the spot have advanced their price to 25s. per cwt.

CREAM OF TARTAR continues a nominal market, with dealers still displaying a feverish anxiety to clear their stocks, although the price in Italy remains at a high level owing to the high cost of crude tartar.

ERGOT continues very scarce at the moment, but there is some Spanish on the way; probably 9s. 6d. would be paid for sound if available. In the drug-auction three bags of ordinary greyish Russian were held at 12s. per lb.

FARINA is firm and dearer, with spot sales of No. 1 Japanese up to 46s. per cwt. Sales to arrive include April-May and May-June at 45s. 6d., also May-July at 45s. c.i.f. Sweet is firmer at 38s. 6d. spot.

FENUGREEK-SEED is considerably dearer, old crop Morocco having been sold at 15s. 6d. to 16s. per cwt. For 1918 crop holders are awaiting higher prices.

FORMALDEHYDE.—The firm position of wood alcohol in the U.S.A. keeps the price steady, and it is doubtful if any appreciable reduction will be seen; 127l. 10s. per ton is quoted for spot supplies.

GINGER.—Small sales of Sierra Leone have been made in Liverpool at 40s. per cwt.; on the spot 45s. is quoted. Calicut is 75s. and Cochin 80s. per cwt.

GUARANA is offered at 7s. 6d. per lb. on the spot.

HEXAMINE is still unchanged at 5s. 9d. to 6s. on the spot and 5s. to come forward.

HYDRASTIS has been selling at rather easier prices of late, and 29s. will buy spot parcels; there is also an offer at 26s.

LIME-JUICE.—Large stocks have now accumulated on this market, and prices are rather lower, good raw West Indian being obtainable at 2s. 6d. per gal.

LIME OIL.—West Indian distilled is lower, fair offering at 4s. 6d. and hand-pressed at 13s. per lb. In the drug-auction two cases distilled sold at 4s.

LIQUORICE-JUICE is rather lower, with good marks of Sicilian block extract offering at 285s.; sticks can be had at from 475s. to 480s. per cwt., inferior quality offering at less. Five cases of sticks (Corona brand) sold in auction at 400s. per cwt. in prize.

LIQUORICE-ROOT.—Natural is rather easier, current quality offering at 80s.; good decorticated is still scarce at 170s. on spot.

MACE.—At auction the large supply of 1,125 packages West Indian offered, and about 350 sold at steady prices, including fine bold pale at 1s. 9d., good pale 1s. 3d. to 1s. 5d., ordinary to fair pale at 1s. to 1s. 2d., common 9d. to 11d., and broken 7d. to 11d.

MENTHOL is firm, with spot sellers of Kobayashi-Suzuki at 23s. 3d., and buyers at 23s. In the drug-auction six cases Kobayashi sold with all faults at 22s. per lb.

MERCURIALS, it is expected, will follow the advance in mercury. They were substantially reduced a month ago.

MILK-SUGAR is unchanged at 1s. 6d. per lb. The Government still appear to have a fair stock for disposal.

MINT OIL.—Japanese demethylolised is steady, with spot sellers at 5s. 10½d. and buyers at 5s. 9d.

NUTMEGS.—At auction 1,412 packages West Indian offered and 450 sold, good qualities selling steadily, while defective were 1d. per lb. cheaper.

ORRIS.—The Government demand for orris, which absorbed about three-quarters of the imports from Italy, ceased some time ago, and a number of contracts have been cancelled for a consideration. With cheaper freights and a favourable rate of exchange with Italy, prices to come forward are lower, and this enables spot sellers of fair Florentine sorts to reduce their quotation to 95s. per cwt. At the drug auction 10 bags fair plump Mogador sold at 70s.

PEPPERMINT OIL.—American H.G.H. has been in much more inquiry, spot prices varying from 52s. 6d. to 55s. per lb. London terms. So-called Wayne County in tins is firm, prices varying from 38s. to 46s. per lb., and even 48s., according to brand.

PEPSIN has been in better demand, B.P. scales and powder (1:2,500) offering at 30s. and 1:3,000 at 35s. per lb.

PHENACETIN is beginning to show a marked rise, and the price from the U.S.A. is not sufficiently favourable to allow importations. Stocks are being gradually worked off, and English makers will have the opportunity of realising more of their product. Price is fully 6d. higher, business having been done up to 11s., which will still buy.

PHENAZONE is unchanged at from 45s. to 46s., with only small consignments coming forward.

PHENOLPHTHALEIN.—Stocks are becoming small, and with a revival in demand the spot price is about 25s. per lb.

PIMENTO is firmer, with spot sales up to 5½d. per lb.

POTASH PERMANGANATE.—A fair business is passing on the spot at from 3s. 6d. to 3s. 9d. per lb.

QUICKSILVER.—Somewhat unexpectedly the leading importers advanced their price by 1l. per bottle to 16l. to 16l. 10s., owing, it is said, to a brisk export demand to the Far East.

SALICYLIC ACID.—English is steady at 1s. 6d. per lb. on the spot for B.P., and U.S.P. powder is offering at 1s. 5d.

SANDALWOOD OIL.—The consignees for the Mysore Government oil announce that they can book orders with reduction clause owing to lower freights and insurance from India. They quote 51s. for small lots.

SHELLAC is again much dearer, but closes quiet. Usual standard quality TN Orange is quoted at from 260s. to 265s., fine Orange at from 340s. to 370s., and AC Garnet at 225s. Futures show a further considerable advance on the week, August delivery having been sold at up to 276s., but on Wednesday the market was nominal at 273s.; to arrive May-June shipment has been sold at 250s. for TN in bags, pure button at 275s., and A. S. O. at 270s.

SODA HYPOSULPHITE can be had at 23l. per ton in cwt. kegs for pea crystals of good quality, which is somewhat lower than our quotation of last week, which should have read 25l. per ton.

SODA SALICYLATE is steady on the spot at from 2s. 6d. to 2s. 9d. per lb. for powder, and 2s. 3d. for forward delivery. **TARTARIC ACID** is steady at from 3s. 3d. to 3s. 3½d. per lb. on spot.

TERPINEOL can be had at 4s. per lb. on the spot. **THEOBROMINE.**—The pure alkaloid is offered at 32s. 6d. and sodium salicylate at 22s. 6d. per lb.

VALERIAN ROOT.—Good Belgian has been selling at from 300s. to 315s. per cwt. on the spot, as to quantity. Indian is also offered at 300s.

WAX, CARNAUBA.—Waxy grey on the spot is quoted at 225s. per cwt.

WAX, VEGETABLE.—Japanese is dearer, with spot sales at from 65s. to 75s. per cwt.

YOHIMBEH BARK.—A shipment of 299 bags has arrived to London, and also 1,602 bags to Manchester.

London Drug-auctions.

Commercial Sale Rooms,

Mincing Lane, E.C.3, May 8.

Much more animation than usual characterised the drug-auctions to-day, and a very fair quantity of the offerings sold. Practically all the cardamoms and rhubarb sold at much higher prices. Sumatra benzoin and Matto Grosso ipecacuanha also sold well, the latter being 3d. to 6d. dearer than at last public sale. East Indian ipecacuanha did not sell under the hammer, but sales were made privately in the room at the importers' limits. Cape aloes sold at firm private rates. Calumba, dragons' blood and gamboge were neglected. Honey improved 5s. to 7s. 6d. per cwt., and is in better demand privately. Kola is steady. Myrrh was cheaper for mixed sorts, and nux vomica was forced off at a considerable decline. Sarsaparilla was about steady for both genuine grey Jamaica and Native, large quantities of which were offered. Both senna and bees' wax were quite neglected.

	Offered	Sold		Offered	Sold
Aconite-root ...	10	0	Digitalis ...	6	0
Almonds ...	33	0	Dragon's-blood ...	29	0
Aloes—			Elderberries, dried ...	13	0
Cape ...	(cs.) 142	35	Ergot ...	5	0
Curacao (boxes) ...	45	*2	Eucalyptus oil ...	357	126
Socotrine ... (kegs)	140	29	Fennel-seed ...	159	0
Ambergris (17½ oz.) ...	0	0	Fennugreek-seed ...	40	0
Annatto-seed ...	27	0	Galls (Pers.) ...	57	0
Anise (Spanish) ...	116	0	" (Ch.) ...	80	0
" star (Ch.) ...	50	0	Gamboge ...	16	0
" oil, star ...	10	0	Gentian ...	407	0
Areca ...	48	0	Guaiacum ...	1	1
Argol (Cape) ...	61	0	Guarana ...	14	0
Balsam (Peru) ...	10	0	Gum chicle ...	2	0
Benzoin—			" karaya ...	84	0
Siam ...	54	0	" ghatti ...	46	0
Sumatra ...	315	78	Gurjun oil ...	165	0
Cajuput oil ...	9	0	Henbane ...	8	0
Calumba ...	129	0	Henna ...	142	0
Cannab. ind. ...	52	0	Honey—		
Cantharides ...	0	0	Argentine ...	59	0
" (Ch.) ...	59	0	Australian ...	916	0
Cardamoms ...	207	207	Californian ...	439	70
" wild ...	50	0	Cape ...	49	0
Cashew nuts ...	57	0	Chilian ...	13	6
Celery-seed ...	39	0	Cuban ...	239	47
Chamomiles ...	177	0	Haïtian ...	70	42
Chiretta ...	17	0	Jamaican ...	73	37
Cinchona ...	187	0	Japanese ...	34	0
Cinnamon oil ...	38	16	Moroccan ...	5	0
Citric-acid crystals (kgs.)	45	45	St. Lucia ...	7	0
Citronella oil (Jv.) ...	10	0	Insect flowers ...	9	*3
Civet (hns.) ...	5	0	Ipecacuanha—		
Cocaine ...	12	0	Cartagena ...	17	0
Condurango ...	1	0	East Indian ...	50	0
Copalba ...	1	0	Matto Grosso ...	28	28
Cumin-seed ...	91	20	Jalap (Braz.) ...	10	*10
Cuttlefish-bone ...	92	50	Kava kava ...	3	0
Damiana ...	2	0	Kola ...	144	12

	Offered	Sold		Offered	Sold
Lime-juice ...	6	0	Senna and pods—		
Lime oil ...	5	0	Alex. ...	95	0
Liquorice-juice ...	36	0	Tinnevely ...	505	16
Liquorice-root ...	453	3	Slippery elm ...	6	0
Menthol ...	14	6	Soap nuts ...	199	0
Mint oil (Jp.) ...	25	0	Squill ...	129	0
Myrrh ...	44	12	Stramonium ...	7	0
Nux vomica ...	2,741	1,443	Strophanthus ...	26	0
Olibanum ...	203	0	Tamarinds (Barb.)	100	0
Orange-peel ...	66	20	Tonka-beans (Para)	6	0
Orris (Mor.) ...	62	10	Tragacanth ...	60	0
Peppermint oil (Eng.) (lb.)	35	0	Turmeric ...	349	*15
Pyrogallie acid (lb.)	100	0	Turtle, dried ...	12	12
Resorcin ... (tins)	3	0	Uva ursi ...	9	0
Rhatany ...	10	0	Wax (bees')—		
Rhubarb ...	64	64	Abyssinian ...	359	0
" (Ch. rhapsontica)	20	0	Benguela ...	28	0
Saccharin ... (cwt.)	10	10	Chilian ...	1	1
Sandarac ...	20	0	Cuban ...	51	0
Sarsaparilla—			East African ...	785	0
Jamaica ...	161	75	East Indian ...	216	10
Lima ...	39	0	Jamaica ...	2	0
Mexican ...	10	0	Morocco ...	9	0
Native Jam. ...	36	8	Mozambique ...	216	0
Scotia ...	4	0	West Indian ...	16	0
Seedlac ...	2	2	Zanzibar ...	96	*14
			Wild-cherry bark	5	0

* Sold privately.

ALOES.—Cape was in better demand, being dearer than at the last public auction, but unchanged compared with the prices paid privately. Good bright hard firsts (on usual 20 per cent. tares) sold at 55s.; good seconds, 52s. to 53s.; fair seconds, 50s.; common dull, 40s. to 41s.; and mixed with dirt, 38s. A parcel of 140 kegs Socotrine offered, of which 106 were withdrawn; 15 kegs fair softish sold at 150s.; and 14 kegs at 130s., subject to 137s. for dark, part drossy.

ANNATTO-SEED.—Dull East Indian (27 bags) were limited at 4d. per lb.

BENZOIN.—Sumatra was in much better demand at irregular but about steady prices, the sales including 12 cases of fine firsts, well packed with small almonds, at 12l. per cwt. Other lots of fair to good seconds sold at 10l. 5s. to 11l.; 45 cases of middling seconds, with false packed ends, sold at 9l. 15s., and good thirds at from 8l. 5s. to 8l. 12s. 6d.

CARDAMOMS met with an active demand, all the catalogues being cleared, and prices advanced 9d. to 1s. per lb., compared with the previous auction. Samples of the principal lot catalogued (97 cases) had not arrived in time for inspection, but the broker decided to sell on the mark, the following prices being paid: Ceylon-Mysore (Kobo 00), good bold pale (26 cases), 7s. 4d.; good bold and medium (Kobo 1), 7s. to 7s. 2d.; (Kobo 2) medium, 6s. to 6s. 1d.; small and medium (Kobo 3), 4s. 1d. Bold pale splits, 6s.; medium splits, 5s. 1d. to 5s. 4d.; good pickings, 4s. 2d. to 4s. 7d.; fair seed, 3s. 4d. Bold brown, 4s. 11d.; ordinary to fair brown and splits, 3s. 2d. to 3s. 11d. per lb. Ten cases Ceylon-Mysore, medium palish, 4s. 10d.; 54 cases small to medium brown sold at 3s. 7d. to 4s., and small at 3s. 5d.; seed, 3s. A pile of 26 cases small greenish Aleppy sold at from 3s. 6d. to 3s. 8d., and seed at 4s., subject to sellers' approval, and ten bales medium heavy greenish Aleppy sold at 3s. 10d. to 3s. 11d.

CINNAMON OIL.—Rather easier. Ten cases Ceylon leaf (plenols 72 per cent.) sold at 7½d. per oz.; four cases and two drums from Seychelles sold at 4½d. per oz. for dark. Two cases Ceylon bark oil were bought in at 2s. per oz.

CITRONELLA OIL.—A lot of 10 drums Java was limited at 3s. 6d.

CUTTLEFISH-BONE.—A parcel of 50 mats fair East Indian sorts sold at 6½d. per lb., being slightly easier.

DRAGON'S-BLOOD.—Good reboiled Singapore part mixed with dull was limited at from 22l. 10s. to 23s. per cwt. The London stock in first-hands on April 30 stood at 174 packages, against 37 packages in April 1918.

EUCALYPTUS OIL.—A lot of 126 cases lying in Liverpool (38 to 53 per cent. eucalyptol) sold without reserve at from 1s. 2d. to 1s. 3d. per lb.

GAMBOGE.—Quiet. Ten cases, good Siam pipe, slightly blocky, were limited at from 40l. to 43l. per cwt., and for very blocky 38l. was wanted.

GENTIAN.—Various parcels of French and Spanish were limited at from 55s. to 57s. 6d. per cwt.

GUAIACUM.—A single barrel of common drossy lump sold at 4s. 6d. per lb.

GURJUN OIL.—A lot of 165 drums offered, for which 2s. 9d. was wanted, at which business has been done privately.

HONEY met with a fair demand, and prices improved from 5s. to 10s. per cwt. Private business is better, there being much more inquiry—home and export. Thirty-seven barrels Jamaica sold at 80s. to 81s. for brown set, 77s. 6d. to 78s. for amber liquid, and 75s. for dark liquid; five barrels good pale set realised 90s. Of Cuban 43 casks sold at from 76s. 6d. to 78s. for mostly palish pasty set; 70 cases Californian sold at 95s. for pale set and 85s. for brown set; five barrels palish set Chilean sold at from 75s. to 85s.; 43 casks Hayti sold at from 77s. 6d. to 81s. for palish to pale brown set. A large quantity of Australian catalogued had been sold privately.

INSECT-FLOWERS.—Rather dusty Japanese were limited at 160s. per cwt.

IPCACUANHA.—A new lot of 50 bales East Indian, mostly fair greyish, offered, but the best bid obtainable was 8s. 6d., the buying-in price being 10s.: for siftings, of which 14 bales offered, 9s. was wanted, an offer of 8s. being refused for part; sales were subsequently made privately at the auction limits of 9s., and 8s. 6d. for siftings. **Matto Grosso** was 3d. to 6d. dearer than last auction, but firm compared with private sales, 22 bales selling at from 10s. 1d. to 10s. 2d. for ordinary lean, part mouldy, and 10s. 3d. to 10s. 7d. for fair to good bright. The deliveries during April were confined to 99 packages **Matto Grosso**, the only arrival during the month being 50 bales of East India, which were offered to-day. The stocks in first-hands at the end of April consisted of 251 **Matto Grosso**, against 408; Minas 3, against 3; **Cartagena** 16, against 76; and East Indian 97, against 80 in April 1918.

KOLA was about steady, six bags of West Indian selling at from 6½d. to 7½d. per lb. for fair halves and whole.

MYRRH was rather easier, 24 bags of ordinary slightly mixed blocky sorts selling at from 15½. 2s. 6d. to 15½. 10s. per cwt., subject to seller's approval.

NUX VOMICA was much cheaper, 1,440 pockets of fair small to medium average Calcutta selling without reserve at from 22s. to 26s. per cwt. Practically nothing has been done privately for some time past owing to buyers anticipating lower prices.

OILS, ESSENTIAL.—Four drums of pure *Spike Lavender*, probably Spanish, sold at 3s. 2d., and three drums *Red Thyme* oil at 6s. per lb.

ORANGE-PEEL.—A lot of 20 cases fair pale so-called *Maltese* machine-cut sold at 2s., and very dark at 1s. 3d. per lb.

RHAPONTICA.—Twenty bags of fair Chinese sold at 9½d. per lb.

RHUBARB, being scarce, sold at a substantial advance, 30 packages of unsightly High-dried selling at from 3s. 6d. to 4s. 2d. per lb. for medium to bold flat, half dull pinky and half grey fracture, very wormy; for pickings 2s. 9d. was paid. Two cases medium round Canton, with three-quarters fair pinky fracture, sold at 4s. 9d., and two cases fair small druggists' trimming root at 4s. 9d. A further eight cases of medium and bold round Canton sold at from 4s. 7d. to 4s. 8d., and pickings at 4s. 2d. The deliveries during April amounted to 143 cases, arrivals being nil; stock at the end of April was 134 cases, against 719.

SACCHARIN.—At the close of the auction 10 cwt. of 550 strength in 7-lb. paper parcels lying at Boots Pure Drug Co.'s bonded warehouse, Nottingham, sold without reserve at from 10s. 1d. to 12s. 3d. per lb. in bond. We note the arrival of 500 cases from New York. America reports a better export demand; prices range from \$4.50 to \$6.00 per lb., as to seller.

SARSAPARILLA.—Grey Jamaica was about steady, 10 bales selling at from 2s. 9d. to 3s. for ordinary rough, part coarse to fair, and for 26 bags (50 lb. each) 2s. 8d. to 2s. 9d. was paid, a further 39 bags part mouldy selling at 2s. 5d. to 2s. 4d. Native Jamaica was steady, eight bales selling at from 1s. 1d. to 1s. 3d. per lb., as to quality. Fair Lima-Jamaica is obtainable at 2s. 4d. The arrivals during April were 61 bales, and the deliveries 103, leaving a stock of 1,400 bales, against 222 bales in 1918.

SEEDLAC.—Two cases ordinary sold at 280s. per cwt.

SENNA.—Quiet. Only common to middling Tinnevely leaf offered, for which 4½d. to 4½d. was asked. Six bales of sea-damaged Tinnevely pods sold without reserve at 1½d., and for 10 bales of fair sound 4d. was paid.

SOAP NUTS.—A lot of 199 bags offered, for which 25s. per cwt. was wanted.

TONKA-BEANS.—Six cases fair frosted Para were limited at 4s.

TURTLE (DRIED).—Twelve cases sold at from 1s. 10d. to 4s. 1d. per lb.

WAX, BEES.—Practically nothing sold, although there was plenty on offer.



Drug-trade Union.

SIR,—Your leading article on the organising of the drug-trade (*C. & D.*, May 3, p. 59) was very timely, and should bear fruit in getting our men to apply common sense to the matter of organisation. Another little incident came to my knowledge this week. It was a document drawn up by the same union which you pilloried. The document in question was dealing with the training necessary for demobilised men for the various distributive trades. Drapers' assistants, said this authority, require two years; chemists' assistants require six months. The organiser of this union is an authority on the drapery trade, and knows what is needed, but when he comes to the chemist's business he knows very little; yet, even he, to my certain knowledge, knows ten times more than the general labourer organisers who are visiting our big centres and pressing chemists' assistants to join general labour unions.

SIGMA. (5/19.)

SIR,—Your interesting article on "Organising the Drug-trade" (*C. & D.*, May 3, p. 59) arrives at the conclusion that Associations representing employed for the purposes of an Industrial Council must be organised as trade unions. Any evidence of a contrary nature is lightly brushed aside as incorrect, however important. The Industrial Reconstruction Council is the body set up by the Government for the express purpose of carrying into practice the establishment of Industrial Councils, and therefore their statement that "any Association (it need not necessarily be a trade union) that is organised so as to voice the opinion of the workers is entitled to representation on such Council" is an authoritative one, and holds the field against any evidence you have to offer. Furthermore, let me quote the report of Sir W. Glyn-Jones's speech at the Conference of Local Association Delegates: "They would be advised to join some organisation; either to join an existing union or, if they choose, to join an Association, which need not be registered under the Trade Union Act, but which can perform the functions of a trade union for this purpose." Do those words indicate any change of front such as you suggest? You argue further that private Associations have not the power to control their members which trade unions have, and "hence cannot acquire a status entitling them to represent assistants on an Industrial Council." Let me ask what power an Association of employers has over its members? Yet they will be recognised without a trade union constitution. In the last resort there is only one bond on either side—that of honour. If that bond suffices in the case of employers, I trust it will also suffice in the case of pharmaceutical employees. Those responsible for the Manchester movement believe that the majority of skilled workers in pharmacy, qualified and unqualified, would prefer a private Association to a trade union. If that be so, we hope to become the most representative body of the craft. Under those circumstances the choice would lie between recognising us or having a non-representative Industrial Council, which would manifestly be an absurdity.

Yours faithfully,

D. N. FULLERTON.

267 Stockport Road, Cheadle Heath, Manchester.

SIR,—Kindly allow me, as a regular subscriber to THE CHEMIST AND DRUGGIST, to make a few remarks regarding the proposed National Chemists' Assistants' Association, originated in Manchester. Perchance some readers at a distance are impressed by the manifesto in your last week's issue; a few truths from one conversant with the conditions of the drug-trade in Manchester may serve to undeceive them. In the first place, it may amuse them to know that the Manchester Chemists' Assistants' Association does not represent 5 per cent. of the assistants and drug and chemical workers in Manchester. Its past record has nothing to commend it, all its doings being overshadowed by an overpowering fear of the employers. Its leaders, some of them at least, work in places where almost everyone else is a member of a trade union, from which they proudly hold themselves aloof. The reason seems to be that they are determined to be leaders, never mind what quandary they may land themselves into, together with their deluded followers. Truly, if the blind lead the blind, both shall fall into the ditch. But I submit that none are so blind as those who wilfully close their eyes to facts. About a month ago a mass meeting of chemists' assistants was held in Manchester (at which I was present) to consider a

Whitley Council. During the meeting it was pointed out repeatedly, even to weariness, that the Government will recognise none but trade unions as eligible to represent employees on a Trade Board or Industrial Council. The leaders of the Association would not admit this, however, and the result is to be seen in the hare-brained scheme of a National Association as outlined in your last week's issue. Perhaps the fact that one of the leaders is a Boots' manager, and labouring under the delusion created by the circular-letter mentioned in your leading article, may account for much. It is now established by the Government themselves that an Association as suggested is absolutely useless, and will have no recognition on either a Trade Board or an Industrial Council. Such ill-considered schemes as this National Association idea lead to a dissipation of energy into useless channels. It may also interest your readers to know that the Manchester C.A.A. is under the ægis of the Manchester Association of Chemist Employers, two delegates of which keep a watchful eye on all its proceedings. . . . Needless to say, the employers are highly delighted with the suggested Association. As one of them gleefully explained to me, "Only a union can legally regulate hours and wages; an Association can do nothing." Most of the wholesale men are already organised in the National Warehouse and General Workers' Union. The retail workers are badly organised owing to false ideas of professionalism. My advice to every assistant is to come down off the pedestal and join a trade union without delay, preferably the Amalgamated Society of Pharmacists, Drug and Chemical Workers. Now is the time; to-morrow may be too late. Let all the money and energy available be directed into the channels recognised by the Ministry of Labour, and then the result will be a better state of life for all concerned.

Yours, etc.,

MANCHESTER. (143/63.)

Dental Society of Ireland.

SIR,—Referring to "Xrayser II's" criticism (*C. & D.*, May 3, p. 57) on the resolution submitted to the special meeting of the Dental Society of Ireland, I should like to ask him if he had a copy of the report of the Dentists Act Committee at the time of his criticism, and had read it carefully. My opinion is that no person who had done so—unless he was biased in favour of the dental surgeons, or was very dense—could fail to understand what was meant. The plain facts are that if the recommendations of the Dentists Act Committee become law no chemist or druggist will be registered unless he can show that his dental practice is the major portion of his business, and when registered will be only allowed five years to continue to carry on both businesses, after which he must choose between one or the other, without any compensation being granted for loss sustained, thus creating a precedent which would obviously be unjust in view of the fact that limited companies, co-operative societies, doctors, florists, etc., all carry on more than one business, which in most cases encroaches on the chemist's or druggist's business. Why, therefore, should he be tied down when practically all other professions and businesses are allowed a free hand? I trust "Xrayser II." will understand what is meant now. I would further add that we are determined to oppose to the utmost of our power what we look upon as a gross injustice.

Belfast.

J. D. CARSE.

The Purity of Aspirin.

SIR,—With reference to the paper on the "Purity of Commercial Aspirin and Aspirin Tablets" in the *C. & D.*, April 26, p. 60, some years ago I had to make exhaustive examinations on numerous samples of aspirin. When determining the percentage of free salicylic acid I used 95 per cent. alcohol as the solvent instead of the dilute alcoholic solvent used by Mr. Jones, and I obtained exceedingly good violet colours, even when the amount of free salicylic acid present proved to be less than 0.02 per cent. It seems possible that the higher results obtained by Mr. Jones may probably be due to hydrolysis of the aspirin in the presence of so much water in the solvent used. The fact that a good colour was obtained tends to contradict the statement that the presence of large quantities of alcohol have a depressing effect upon the colour intensity. It would be very interesting to know the amount of free acetic acid present in the samples of aspirin upon which Mr. Jones has experimented, as this is a very common impurity, especially if the samples have been exposed to damp atmospheres. As aspirin is liable to be made from both acetyl chloride and acid anhydride, figures stating the chlorine content would also be of interest.

Yours faithfully,

Nottingham.

B. BAKER.

Quinine-tin Sundial.

SIR,—I was particularly interested in the paragraph referring to "The Quinine-tin Sundial" in the *C. & D.*, May 3, p. 66, as one of my assistants (now dispenser at the prisoners of war camp, Tel-el-Kebir) appears to have played an important part in its construction. In a letter to his wife, dated February 16 last, he says, "We have been having a sundial made, and it is the attraction of the whole camp. I suggested and instructed the making of it. The Germans think it clever, and our C.O. says we had better make another at the bottom of the camp, where it is wanted more." A sketch accompanied the letter.

Yours truly,

Spon Street, Coventry.

SYDNEY H. BRD.

Emergency Medicine Supply.

SIR,—While agreeing with "Xrayser II." that it is necessary to maintain a supply of medicines in case of emergency, I differ from him when he compares our position to that of the doctors. First, the doctor has a virtual monopoly of the care of sick persons under a legal protection which the State does not extend to pharmacists, and as the person who is ill is practically bound to go to a doctor, so he is bound to answer the call. Secondly, the doctor charges a largely increased fee for night attendance, and if "Xrayser II." will add the same percentage to his prices after hours, he will probably hear some far from flattering remarks. Thirdly, a pharmacy is open all day, and the pharmacist has to be in attendance, but a doctor fixes his own hours, and if a patient calls and finds him not at home he cannot retort that the urgent case the doctor has gone to is possibly on the golf links. Fourthly, the professional status of a medical man produces an attitude of respect on the part of the public which the pharmacist never receives, and his night bell is not likely to be abused by unnecessary calls, as the chemist's frequently is. Whilst not claiming to be worse off than other pharmacists, some of my experiences have been singularly unhappy; in one case I charged face value for an infants' food urgently required after hours, and half an hour later another ring announced the return of the same customer with a stores catalogue to show me that I had charged 3½d. too much. Another time I had a telephone call at 3 A.M. to send round 1 lb. of cotton wool *at once*; but the height of abuse was reached when a man, having called in a strange doctor in the night, accompanied him back to the surgery for the medicine, and the doctor demanding cash payment, he rang me up for change for a sovereign to settle the account.

Yours faithfully,

KNIGHT BELL (133/45).

Charges for Packages.

SIR,—Is it not time someone exposed the "box charged" ramp of the country wholesale houses? I have two boxes just delivered, one from Brighton, a nondescript knock-up of boards marked "Sunlight Soap" on one side and "Lifebuoy Soap" on the other. It measures 12 × 12 × 18 inches, and probably is worth 3d. as firewood. It is charged to me 1s. 6d. The other, from Manchester, is marked "Booth's Herrings," measures 14 × 14 × 21, and is charged 2s. 6d. These bits of odds and ends of firewood will cost me about 10d. each to return, besides the bother of booking, cost of advising returns, and possible loss. Yet if I fail to return them I must pay 4s. for the two, and sell them at 3d. each to poor neighbours. The loss is mine anyway. Now my contention is that these wholesale houses do not want these boxes back. The boxes cannot possibly be worth what they are charged. It is therefore merely a method of adding an extra shilling or two to the bill on the supposition that in all probability the receiver will not take the trouble either to return the boxes or dispute the charge. Why should I pay tenpence or a shilling carriage to return three or four pennyworth of wood? And why should the already disjointed railway service be burdened with the transport of rubbishy boxes? Surely the wholesalers might charge a small fee for such boxes, not exceeding sixpence, and mark them non-returnable. Booking, transport, and loss would be saved on every side.

Yours faithfully,

ROBBED. (145/57.)

Pharmaceutical Reforms.

SIR,—I see a good deal of grouching on various matters and demands for reforms, but I think these reforms would be more likely to become realities if the various members of local Associations would attend the meetings regularly as a duty to the craft, formulate some good red-hot resolutions, and send them up to the proper quarters. We complain of the Society, but we don't tell them vigorously enough what we really want and mean to have. The same with other matters: we won't exert ourselves to demand

firmly, but gently, what we mean to get. There will be a number of annual meetings this month, and I beg the members of local Associations to pay a well-earned compliment to the officers and active members by being present, every one of them, and making a good resolution that in future they will support their craft by helping to bear the heat and burden of the day, and so bring about the reforms which, academically, they desire to see, but, practically, they don't move a finger to bring about. Let them do the thing. Do it now, and stop grouching. Union is strength!

Yours faithfully,
NOMEN. (134/11.)

Legal Queries.

F. D. (136/21).—QUININE AND IRON TONIC LABEL.—The expression "purifies the blood" renders the preparation liable to stamp-duty unless the disclosure is adequate—i.e., that quinine and iron are the main therapeutic agents of the mixture.

W. E. R. (130/27).—BALSAM OF ANISEED.—Referring to our previous reply to your inquiry (*C. & D.*, April 5, p. 72), the use of the title "balsam of aniseed" without any mention of an organ of the body or disease does not involve liability to stamp-duty.

A. T. (129/11).—NEW DEPARTMENT.—You will require a licence from the Minister of Labour (application should be made to the local Employment Exchange) before you can open a department in your business which you have not previously carried on.

C. L. H. G. (130/61).—(1) It is not necessary under the present Copyright Act to register matter at Stationers' Hall. If you wish to protect a trade-mark this should be registered at the Patent Office. (2) Your solicitor would carry through the registration of a private limited company.

I. R. P. (126/37) is mortgagee under three mortgages on house property, executed before the war, the rate of interest secured being $\frac{4}{2}$ per cent. When will he be entitled to increase the rate of interest to 5 per cent. in accordance with the Increase of Rent and Mortgage Interest (Restrictions) Act, 1919; and is he now at liberty to call in the mortgages? [If the mortgaged houses are covered by the Increase of Rent and Mortgage Interest (War Restrictions) Act, 1915, the $\frac{1}{2}$ per cent. increase in the rate of interest will not be recoverable until the expiration of six months after the termination of the war. If the houses are covered by the Act passed last month the increase may be made at any time. In either case, however, the rate of interest can only be increased in accordance with the terms of the mortgages themselves. Therefore, unless the mortgagors agree to pay the higher rate of interest "I. R. P.'s" only course is to give notice requiring repayment of the mortgages or payment of interest at 5 per cent. The length of notice required depends upon the terms of the mortgages. Generally speaking, a mortgagee is not permitted to call in a mortgage on houses covered by the Acts, provided the mortgagor pays his interest, observes his covenants, and keeps the property in a proper state of repair. For more definite information as to his position under the three mortgages in question we must refer "I. R. P." to a solicitor.]

G. W. B. (126/38) became tenant of a lock-up shop on or about the March quarter day, 1914, at a rent of 26*l.* per annum, payable quarterly. It was understood that the tenancy should be an annual one, to be terminated by six months' notice, expiring upon any anniversary of the commencement of the tenancy; but there was no written agreement upon this point. Subsequently the premises were bought by a builder, who pulled down an old shed, which "G. W. B." was permitted to use as a warehouse, and built a better shed in its place; the new landlord also improved and decorated the shop premises. A few weeks before Christmas last the landlord informed "G. W. B." that the rent would be increased to 30*l.* per annum, payable, as before, quarterly. "G. W. B." agreed to the increase in rent, and paid a quarter's rent at the higher rate at Lady Day. The landlord now urges "G. W. B." to buy the premises, threatening that if "G. W. B." declines to do so he will be given six months' notice in June next to quit the premises at Christmas. "G. W. B." contends that he is entitled to six months' notice expiring at Lady Day, 1920; is his contention correct? [We are of opinion that by assenting to and paying a higher rent during the continuance of his original tenancy "G. W. B." has acquiesced in the creation of a new tenancy as from Christmas last, which is terminable by six months' notice.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

T. W. (107/65).—SALT STONE used for tempering needles.—This appears to be a fused mixture of sodium and potassium nitrites. Other elements, sulphates, chlorides, etc., are absent.

Lanes (122/30).—It is not possible now to acquire the dental qualification without going through the curriculum (see *C. & D.*, August 24, 1918, p. 46). The report of the Dentists Act Committee recommends certain modifications in the law in regard to those unregistered persons who are practising dentistry, and also favours shortening the curriculum, but this will hardly meet your customer's requirements.

T. B. N. (122/73).—You need not be afraid that the vapour of formaldehyde will affect injuriously a fur coat. A good way of fumigating the coat is to hang it up in a cupboard with open vessels of formalin in the bottom of the cupboard.

W. F. (121/58).—"SUN-BRONZE" FLUID.—We have never worked out a formula for "sun-bronze" liquid for giving a tanned appearance to the skin, but have several times suggested that such a fluid might be made with harmless soluble colours such as logwood extract, or caramel, with or without the addition of brown umber.

H. S. (132/48).—LANOLIN PATENTS.—We published particulars of the lanolin (expired) patent and trade-marks in *THE CHEMIST AND DRUGGIST*, March 20, 1915, p. 47. There are no patents in force for this product so far as we are aware. The light colour of the product is obtained by purification.

J. E. N. (135/13).—PHARMACY POTS.—It is not possible to give from photographs a trustworthy opinion as to the age and value of the tamarind-jars. They are presumably perfect. The colour and paste are the guides as to whether they are Bristol, Liverpool, or Lambeth ware. Their date, however, seems to be about 1750, and the handles and knobs show French influence, and may be Nevers or Monastier faience. The decoration is not uncommon, and such jars would probably fetch from 5*l.* to 7*l.* in a London auction-room.

A. J. W. (114/14).—BOOKS.—*Assaying*: Seamon's "Manual for Assayers and Chemists" (Chapman & Hall); Beringer's "Text-book of Assaying" (C. Griffin); Park's "Text-book of Practical Assaying" (C. Griffin). *Soil Analysis*: McCall's "Field and Laboratory Studies of Soils" (Chapman & Hall, 2*s.* 6*d.*); Keith's "Chemistry of Farm Practice" (Chapman & Hall, 6*s.*); "The World's Minerals," by L. J. Spencer, is published by the Frederick A. Stokes Co., New York; "The Sportsman's Hand-book" by Rowland Ward, Ltd., 167 Piccadilly, London, W. 1.

C. A. S. & Co. (118/67).—Coating the galvanised tank with melted paraffin would prevent the uncoated patches rusting and affecting the whey placed in the tanks.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," May 15, 1869.

Discovery of Apomorphine.

Dr. Matthiessen, since his removal to St. Bartholomew's Hospital, has continued his researches on the Opium Bases in conjunction with Mr. Wright, and we are glad to hear that recent experiments have led to a remarkable discovery, which is likely to have important therapeutic applications. We are informed that these chemists have succeeded in obtaining a new base which has the composition of Morphia minus the elements of one molecule of water, and which produces striking physiological effects. It appears that this new base is absolutely devoid of narcotic properties, and that it is a most powerful emetic and contra-stimulant. When it is said that one-tenth of a grain subcutaneously injected will produce violent vomiting in about five minutes without evil after-effects, we may fairly conclude that this new body will prove a valuable addition to our materia medica. We understand that Dr. Gee is carefully studying its physiological effects. According to all accounts, the emetic properties of the new base were so evident, that the investigators were soon sick of handling the substance. Surely it ought to be named "catamorphia."

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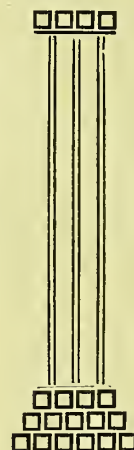
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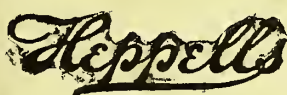
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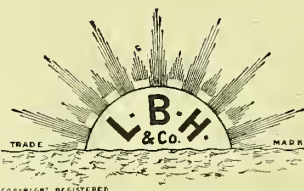
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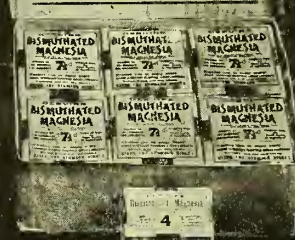
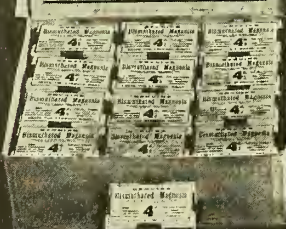
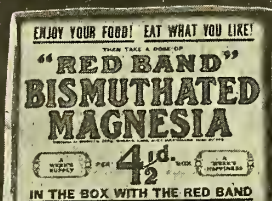
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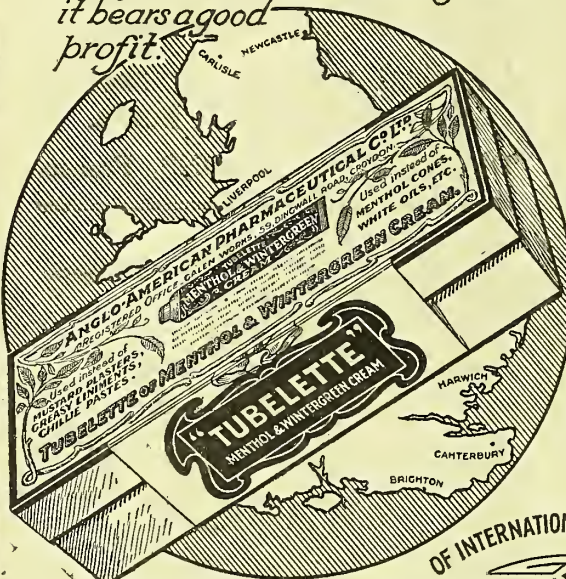
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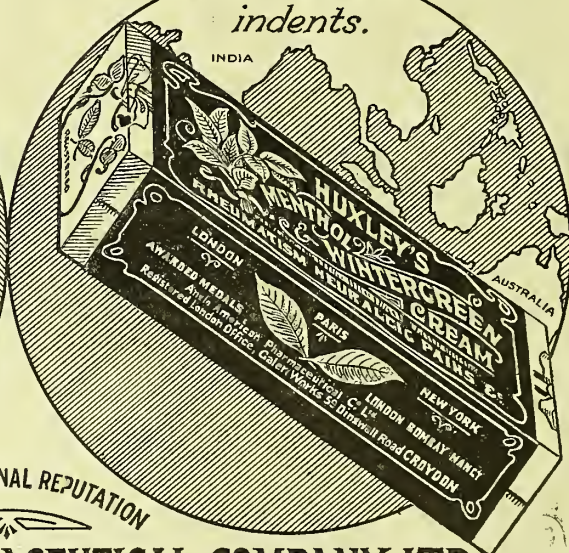
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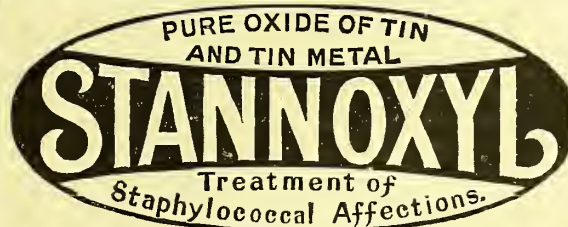
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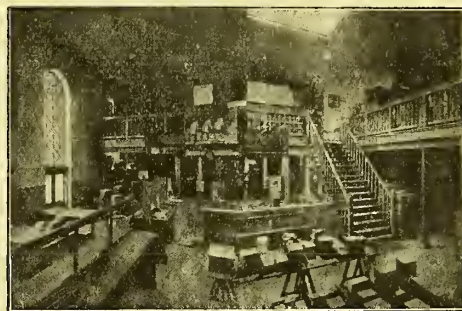
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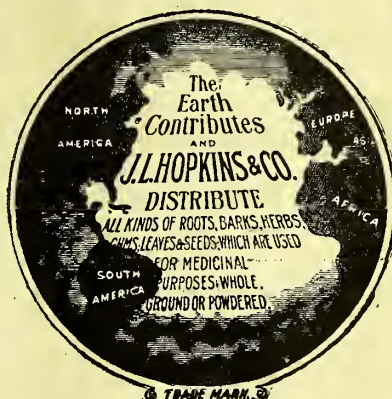
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2 lbs. ...	48/-	36/-	25/- "
5 lbs. ...	46/-	34/-	23/- "
10,000	7/6	5/9	4/- per 1,000
100's, boxes	9/-	7/-	5/- per doz.

Cash with Order. Window Bills Free.

HYGIENIC TESTS FREE.

With every order to the value of £25 we pack 6 dozen Transparent Hygienic Tests as Bonus, and a smart Business-Pulling Window Show with £10 lots in addition to Bonus Tests.

Saccharin 550 Pure. In Original Containers.

150/- per lb. Any Quantity Post Paid.

WALTON, Chemist, BATLEY.

ESTABLISHED 1871.

Telegraphic Address:
"Toothache Sheffield."

BRITISH Aspirin Tablets

9/- per 1000

Each tablet contains 5 gr. B.P. Aspirin.
As supplied by us to the Military Hospitals.
Bottles—25s, 4/6; 50s, 8/-; 100s, 14/9.

BRITISH Saccharin Tablets

3 grain 550 in 1.

In packets or bottles of 100, 200 or 500, and in Bulk. Special quotations for quantities.

All drugs are tested, and tablets made in our own factories, and guaranteed by

G. CARR & CO. Ltd.

Manufacturing Chemists,
Wilkinson Lane - SHEFFIELD.

The New **PURE LIQUORICE** Juice.**APOLLO**

MacAndrews & Forbes Ltd., are pleased to advise their customers that they hope to have a good supply of "APOLLO" and "MAFCO" pure stick liquorice for delivery next Autumn.

In accordance with their usual practice of selling at prices having a reasonable relation to costs, they have confidence in believing that prices will be much below present figures. They desire to strongly emphasise that their sticks are guaranteed to be the pure extract of the root, free from dirt and grit and without added substance.

Supplies of 'V.B.' have now arrived.

MACANDREWS & FORBES, Ltd., 2 Broad St. Place, London, E.C.2.
ESTABLISHED 1857.

"SOLAZZI" LIQUORICE JUICE
THE CHEMISTS' BRAND.**'The Lancet' says: 'Of Standard Purity'**

Recommended also by *The British Medical Journal, Health, The Chemist and Druggist, Food and Sanitation.*

Ask for SHOWCARDS and HANDBILLS. To be obtained of all Wholesale Houses.

**WAXED WOOD PULP
DISCS AND RINGS**

FOR ALL CAPS AND LIDS.

Impervious to moisture. Better, cheaper and cleaner than cork or rubber for sealing Pomades, Malt Extracts, etc. etc. Supplied in any size, shape or thickness. **IMMEDIATE DELIVERY.**

WRITE OR PHONE
for FREE SAMPLES

DAIRY SUNDRIES, LIMITED,
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Managing Director—
F. WALENN.
Phone: Walthamstow 188.

We can offer from stock, afloat, and prompt shipment from New York :—

Acetanilid	Glucose	Paraformaldehyde
Aspirin	Heliotropine	Peppermint Oil
Aldehydes	Hexamine	Potash Chlorate
Acetic Anhydride	Hydrokinone	Potash Permang.
Bromides	Lithia Carb.	Prussiates
Beta-Naphthol	Hypophosphites	Resorcin
Carbolic Acid	Hypo. pea Xtals.	Saccharin
Coumarin	Mercurials	Salicylic Acid
Citric Acid	Methyl. Sal.	Soda Sal.
Farina	Milk Sugar	Salol
Formaldehyde	Phenacetine	Soda & Acid Benzoate
Guaiacol Carb.	Pepsin	Tartaric Acid
Dragon's Blood	Phenolphthalein	Terpineol
Glycerine	Pancreatin	Tannic Acid
Glycerophosphates	Paraldehyde	Vanillin

Also a full line of HEAVY CHEMICALS, ANILINE OIL & SALT, SODA, BICARBONATE, CAUSTIC ASH, SULPHIDE, SULPHITE, BLEACHING POWDER, BICHROMATES, ZINC DUST, &c. &c.

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(Phone 5763 HOLBORN.)

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Every tablet guaranteed to contain gr. 5 PURE ASPIRIN, B.P., m p. 135'5, as supplied by us on contract to the Allied Armies.

Packed for the Trade, in unlabelled bottles, as follows :

25's—4/6 per dozen. 50's—8/3 per dozen. 100's—14/9 per dozen.

Bulk, 8/9 per 1000.

(Stock labels supplied if desired.)

ASPIRIN, B.P., superfine quality, 7/6 per lb.

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FOR POTTERS, GLASSMAKERS, GLAZED BRICK MANUFACTURERS, & ENAMELLERS ON METALS.

OXIDES OF ANTIMONY, ARSENIC, CHROME, COBALT, COPPER, IRON, MANGANESE, NICKEL, SMELTS, TIN, TITANIUM, URANIUM, ZINC, &c.
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is made on the sale of BLENOSAN CAPSULES. Owing to the extensive advertising propaganda embarked upon to the Medical profession, the sales are daily increasing. Every Chemist should be ready with stock to meet the demands of the Medical profession, who are prescribing BLENOSAN for the treatment of Gonorrhœa and other urinary troubles. ★ ★

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32/- doz. Only size tin, 3/6 each



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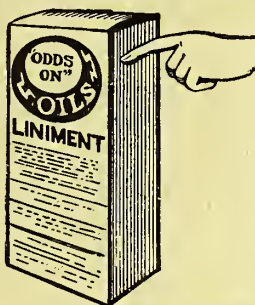
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APPROPRIATE TO THE TIMES.

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(Guaranteed)

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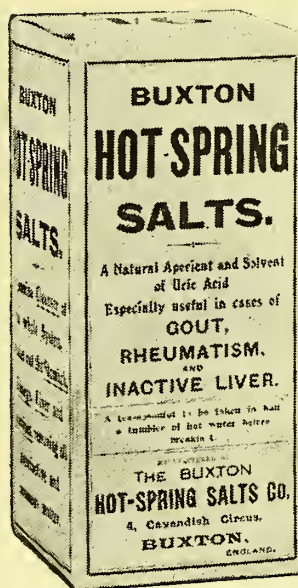
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Works address:

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THE WINNING FAVOURITE
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Sells on sight.
A sound Article.
Unlike all others.
A phenomenal repeater
and profitable to handle.
Now extensively ad-
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Wholesale through
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An opening order for
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THE BUXTON HOT-SPRING SALTS CO.

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BELLADONNA ROOT.
CAMOMILES.
LIQUORICE. Cut Decort.
LIQUORICE. Powdered.
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F. J. CARMICHAEL & CO.,
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GESTIVO FOOD FOR INFANTS
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On P.A.T.A.,

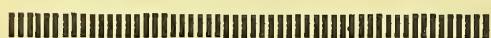
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TINS, in two sizes, 1s., and 1/9,
Which cost 8/6 doz. and 12s. doz.

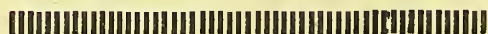
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PURE RAW and/or BOILED LINSEED OILS



We now have
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RAYOLENE BLACK JAPAN.

The best preparation for Fire Ranges, Cycles, Mail
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splendid selling line, and far superior to methylated
spirit preparations.

	9d. Tins.	1/6 Pints.	2/9	
Retail Prices	9d.	1/6	2/9	
Wholesale	6/6	12/6	22/-	per dozen.

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Much easier to apply than quick drying spirit
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brilliant and durable lustre. Made in three popular
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	9d. Tins.	1/6 Pints.	2/9	
Retail Prices	9d.	1/6	2/9	
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SPECIAL OFFER.—One box, containing 4
dozen 9d. tins and 2 dozen 1/6 tins, your
selection, will be sent, carriage paid, box free,
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TASTELESS AND ODOURLESS,

Guaranteed to pass all the tests of the B.P.

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The HALL MOTOR FUEL Ltd., Edmonton,
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WHOLESALE ONLY.

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"CREAM" quality $\frac{1}{2}\%$ Acidity. Casks about 48 galls., **23/-** per gall. London.
"IMPERIAL" " 1% " " " " **22/-** " "

Cans (2 in case) 2 galls. each, **26/-** per gall. Manchester.
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BRANCH HOUSES at Glasgow, Bristol, London, Liverpool, Birmingham & Newcastle-on-Tyne.

PURE ESSENTIAL OIL OF HOP.

Singly and fractionally distilled.
HIGHEST CONCENTRATION AND PURITY GUARANTEED.

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Eucalyptol Content 70/80%
Optical Rotation 0 to 1
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Absolutely Free from Phellandrine.
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Toilet preparations form an integral and profitable part of the chemist's business, and may be kept to the front without any derogation of dignity. The Euthymol scientific toilet preparations are in every respect worthy of a very prominent place.

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The demand is much larger than ever. Dentists recommend it, and it maintains its position by its unsurpassed germicidal efficiency. Whilst in the Navy or Army many men learned to use Euthymol Tooth Paste regularly, and to-day, as they are again in civil life, a display of the premier British-made tooth paste provides the best means of securing them as regular customers. **Write for best terms.**

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For sensitive skins you may confidently recommend Euthymol Shaving Stick. The basis is a superfatted soap, which produces an effective lather as well with cold water as hot. Euthymol Shaving Stick is in every way pleasant to use; it adds comfort to every shave. No advance in price since 1917.

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BathCrystals **P., D. & Co.**

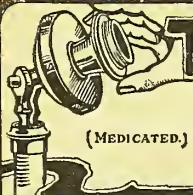
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PREVENTION IS BETTER THAN CURE.

EASILY FIXED BY HALF TURN TO THE RIGHT.

PRICE, INCLUDING 6 RE-FILLS - **6d**

REDUCED FACSIMILE OF ADVERTISING CARD.

Packed 3 dozen in cardboard
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Supplied, carriage paid, at

Per **24/-** Gross.

Cash with Order.

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TO PLEASE YOUR
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Overton's Foot-Balm

A REAL Foot Remedy
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DO YOU rely upon personal recommendation to increase your practice? If you do, you must have the best mechanical work possible. All my customers are permanent, because they know by experience that they are unable to obtain the same exquisite work elsewhere. Efficiency spells Progress. I am The Specialist organised and equipped for the purpose, my charges are moderate and deliveries good.

Price list upon application.

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ZEAL'S REGISTERED Clinical Thermometer The "REPELLO"

Requires no shaking down.

Guaranteed Accurate.

A 30-Second Pushed back
in an instant.

Good
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Lines for
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Showing flattened
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NEW IMPROVED LENS FINDER

The only Easy Reading Magnifying
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IN FOCUS.



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The square mark engraved on lens front
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Wholesale Manufacturer of

CLINICAL THERMOMETERS.

CONTRACTOR TO H.M. GOVERNMENT.

Established 1888.

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A good "sundry" for Chemists. In regular demand. Increased production facilities now permit the prompt execution of all normal orders and the opening of new accounts.

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USUAL SIZE **8 1/2d** FAMILY SIZE **1/4**

If you do not already stock Andrews' we would like to send you our Trading terms and a tin for your personal Trial.

Please state requirements,
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SIZE 1 gross, **160/-**

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WRAPPERS 3/6 EACH.

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Small.
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9/- gross.1 gross lots
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Special price for cwt. lots.

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PHOSPHORUS AND QUININE TABLETS.

9/6 per 1000.

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Boxes of 24, **18/6** per dozen.

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SUPERIOR ENGLISH MANUFACTURE. FAST WOVEN EDGES

Extremely Elastic, but contains no Rubber.

"I can dance
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Invaluable for binding. Displaces rubber and elastic web. More durable and one-third the cost. The Norvic Crepe Bandages, containing wool, will provide warmth, and do not absorb grease readily. Self-clinging and self-adjusting. Perfectly cleansed, sterilised, and resiliency entirely restored by washing in hot soft water (with addition of a little soap). The edges will not fray out nor ravel. Made and supplied to the leading wholesale houses, neatly wrapped in labelled packages. Commended by the medical and nursing professions. Send for prices and samples to the sole manufacturers—

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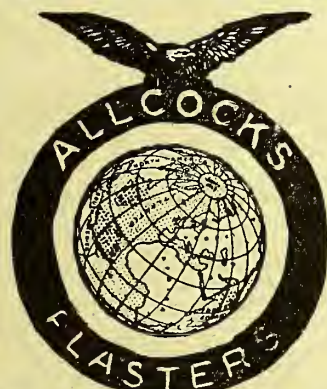


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MANUFACTURING
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STOCK OF**

After being for long practically without stocks, we have now just received a limited re-starting lot, which will be equitably and proportionately distributed.

PRICES.

Retail.		Trade.
9d.		7/7 per doz.
1/3		12/8 " "
2/6		25/3 " "

Less 5% for payment at 1 month.
£3 and up. carr. paid.

The Trade may therefore now order, through their Wholesalers or direct from

**J. E. GARRATT, 96 Southwark Street,
LONDON, S.E. 1****SOLUBLE QUININE PESSARIES**The **"SAFEGUARD"** Pessaries (of which we are sole proprietors) are compounded according to a formula which experience has shown to be absolutely the best for the purpose. Nothing but the purest drugs being used in them, they never fail, and can be recommended to customers with the utmost confidence.**PRICES.**1 Dozen in Box, with directions Per Dozen Boxes **£ 0 18 0****Special Quotations to Shippers and Wholesale Dealers.**

5% discount allowed for prompt cash off above prices.

We are the right House for **BRITISH-MADE GOODS**—Anti-Rheumatic Rings, Bandages, Belts, Catheters, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Trusses, Splints, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber Goods.**ILLUSTRATED PRICE LIST POST FREE.****OUR GOODS ARE RIGHT.****MONEY BACK IF NOT SATISFIED.****BURGE, WARREN & RIDGLEY, LTD.,****91 & 92 GREAT SAFFRON HILL, LONDON, E.C. 1.**

A REMINDER.

WE are again reminding Chemists that we wish to send all inquiries that we receive to a local Chemist who stocks Sphagnol Soaps and Ointments.

Our reason is this; for several years we have consistently advertised Sphagnol Soaps and Ointment in the Medical Press, and to-day they are being regularly used in Hospitals. Doctors are prescribing them in the treatment of Eczema, Scabies, Psoriasis, Haemorrhoids, Ulcers, and other forms of Skin Troubles. Nurses are also recommending them to their patients.

The inquiries come to us because some users are finding it difficult to purchase from any Chemist in their neighbourhood.

SPHAGNOL SOAPS, Medical, Toilet and Shaving.
SPHAGNOL OINTMENT, Medical 10%; SPHAGNOLINE 5 %
SPHAGNOL SUPPOSITORIES.

Send us your Name and Address for full particulars.

PEAT PRODUCTS <SPHAGNOL> Limited
19 Queenhithe, Upper Thames Street — — LONDON, E.C. 4

RENDELL'S

SOLUBLE QUININE PESSARIES.



THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in **RED INK**, are upon each box thus:

Registered
Trade Mark, 
without which
none are genuine.
No. 182,688.

W. J. Rendell
No. 182,688

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

IMPORTANT NOTICE AND CAUTION.

Several injunctions in the High Court of Justice having already been obtained (reports of which have appeared in "THE CHEMIST AND DRUGGIST"), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of "W. J. RENDELL," "RENDELL," or any colourable imitation thereof in connection with Pessaries NOT manufactured by

W. J. RENDELL,
INVENTOR AND SOLE MAKER,
15 CHADWELL STREET, CLERKENWELL, LONDON, E.C.

The Brand "Ingram's London" is a Guarantee of Quality.

INGRAM'S PATENT BAND TEAT & VALVE

"Agrippa"
REGD TRADE MARK

(BRITISH MADE BY BRITISH LABOUR).

The Patent Band Teat and Valve "AGRIPPA" are perfectly Hygienic. The Rubber has been specially prepared so as to withstand actual boiling, and does not deteriorate by frequent repetition of this boiling process.

The chief feature of the Ingram's Patent Band Teat "Agrippa" is the extraordinary gripping power caused by the interior band of rubber which holds on to the bottle, absolutely refusing to slip off. Therefore there can be no waste of the contents of the bottle whatever. The Patent Band Valve regulates to perfection the flowing milk food.

The "Agrippa" Patent Teat possesses a little flat cushion at the base, which gives comfort to the Child when taking its food, and is the nearest copy to nature, as far as feeding facilities are concerned.

Ingram's Patent Band Teat "Agrippa" is the only Perfect Teat extant and will fit any make of Boat Shape Feeding Bottle.

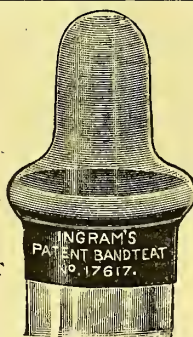
Obtainable from all

Wholesale Houses.



Black or
Transparent
Rubber.

WILL NOT
SLIP OFF.



Ingram's Patent Band Teat and Valve "AGRIPPA" (Regd. Trade Mark) are protected by the P.A.T.A., and are supplied on the understanding that they will not be re-sold to Chemists and Retail Trade at lower prices than quoted below.

GOODS.	Minimum Wholesale Prices to Chemists.	Minimum Retail Prices.
TEAT (Patent No. 17617) Black or Transparent.	2/6 per Doz. Net 27/6 per Grs. Net (for orders of 3 Doz. and over).	3^d. 3² EACH.
VALVE (Patent No. 17617) Black or Transparent.	2/- per Doz. Net 22/- per Grs. Net (for orders of 3 Doz. and over).	3^d. 3 EACH.

INGRAM'S Seamless Enemas.

HIGH-CLASS ENEMAS. GUARANTEED NOT TO SPLIT.



A RELIABLE QUALITY SEAMLESS ENEMA.

Ordinary Bulb. Perfectly Safe. Perfectly Hygienic. Fitted complete with Bone Rectum and Gum Vagina Pipe and Leather Shield, and packed in an attractive Card Box. Min. P.A.T.A. Wholesale Price 28/8 per dozen. Min. P.A.T.A. Retail Price 3/3 each.

Registered Trade Marks:

"Adaptable," "Eclipse," "Sterilendum,"
"Zebina," "Atalanta," "Utilema," "Zenith,"
and the "PERFEX" Enema.

INGRAM'S

Indiarubber Soothers.

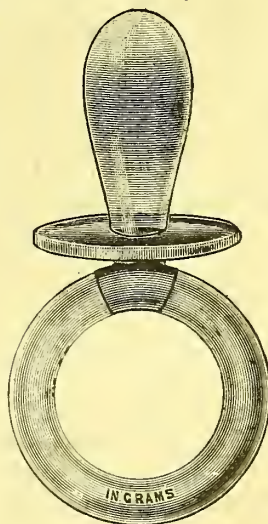
Best Quality Pure
Para Rubber.

Perfectly Harmless.

Warranted tasteless,
and free from
deleterious compounds.

Large or small
Shield.

Transparent or
Black.

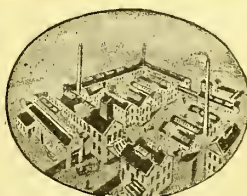


J. G. INGRAM

THE LONDON INDIA

Established 1847.

HACKNEY WICK, E. 9.



& SON, LTD.

RUBBER WORKS,

Telephone 1406 East.

LONDON, ENGLAND.

FREDK. FINK & CO.,

10 & 11 MINCING LANE, LONDON, E.C.

SPECIALITIES.—Gums Arable and Tragacanth as imported or finely powdered.**PRECIPITATED CHALK.**

Lightest and Whitest, also Purest Dense.

APPLY TO

AUG. LEVERMORE & CO. Ltd., 8-10 Ct. St. Helens, LONDON, E.C.
Telegrams: "LEVERMORE LONDON." Telephone: 4613 Central.**SHADEINE**

FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.
Trial size 6d., per post 10d. Medium, 1/4, per post 1/7; Large, 3/6, per post 4/-.
6d. size 6/- doz.; 1/4 size 12/- doz. 3/6 size 33/- doz.**THE SHADEINE CO.,** 58 WESTBOURNE GROVE, LONDON, W.**E. CRAWSHAW & CO.,**

56 Great Dover Street, S.E.

ANILINE DYE MERCHANTS,

are still selling their well-known Aniline Dyes to retail in Penny Packets.

Telephone: Hop 4992. Teleg. Address: "Cachous London."

RUBBER GOODS

(FOR ALL KINDS OF SURGICAL)

TRY: JAMES TOMPKINS, LTD.*The Rubber House,*

386 City Road, LONDON, E.C. 1. ESTABLISHED 1877

**CACHETS "FINOT"**

(White or Coloured),

With inscriptions in any desired tint: also Plain or Embossed."Beautifully made and the inscriptions give them a distinction all their own."—C. & D.
"Perfection of Cachets"—Lancet.These Cachets are especially adapted for Headache, Neuralgia and other pains.
COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.
In 17 Sizes, to fit the various types of Cachet Machines.**Precipitated Chalk, Hyposulphite of Soda,
Sulphite of Soda, Glauber Salts, Epsom Salts,
Salts of Tartar, Alum, Sulphite of Lime,
Sulphide of Sodium.****L. BRAMWELL & SON, Ltd.,** ST. HELENS, Lancs.**John E. Raworth & Moss,**

Chartered Patent Agents.

*The Old Mansion House,
73 Cheapside, E.C. 2.*AND *Queen Anne's Chambers,
Westminster, S.W. 1.***ROYAL COURT HAIR DYES**

Notwithstanding the shortage of supplies, we are still in a position to supply all orders and guarantee our preparation to be exactly the same as pre-war recipes. Own-named brands a speciality. Largest profit, and most reliable Hair Dye yet produced.

J. KNOX WALKER & Co. Ltd., 422 Kingsland Rd., London, E. 8.**4. Quin. Quenna 6**

best Hair Grower and 'Waver' known, thousands say so and our ad. tell customers, chemists can supply. Have you yours on show?

Will send at once
6 dozen with 1 dozen
Bonus and window material
Carriage Paid.**43%**Any number of chemists
sell 1 gross a month and
you can do the same
CHRISTY'S
Old Swan Lane, E.C. 4.

Telephone: 138 Pendleton. ESTABLISHED 1855. Telegraphic Add.: "Champagne Manchester."

B. ROBINSON & CO., Ltd.

PENDLETON, MANCHESTER.

CONCENTRATED WATERSAqua Amygd. Amar. Conc. (U.S.)
" Anethi Concent.
" Anisi "
" Camphoræ "
" Caryophyl "
" Carui "
" Cinnam. Ver. Conc.Aqua Cassiæ Conc.
" Flor. Aurant. Conc.
" Sambuci Conc.
" Fœniculi Conc.
" Menth. Pip. Conc.
" " Ang. Conc.
" " Virid. Conc.Aqua Pimentæ Conc.
" Pulegii "
" Rosmarini "
" Rosæ "
" " Virgin Conc.

WHOLESALE TERMS ON APPLICATION.

Robinson's Concentrated Waters are stocked by all the best known Drug Houses. Chemists are advised to get into direct communication should they experience difficulty in obtaining them. They are unsurpassed by any other make.

STANDARDISED Customs drawback on Export Orders now allowed. Inquiries solicited, which shall have TO B.P. 1914. prompt attention. Samples **Free to the Trade.****NOTE.**—These **ORIGINAL** Concentrated Medicinal Waters (1-40) still maintain their foremost position. **REFUSE ALL SUBSTITUTIONS OR IMITATIONS.**

SELL THE BEST.

...

Meet the demand with
"L" BRAND, and give
your customers satisfac-
tion.

"L" BRAND LYSOL
has a small green label on
the back of the wrapper
and is thus easily recog-
nised.

"L" BRAND LYSOL
is safe to recommend to
your customers as the
best all-round antiseptic
for personal & household
use.

"L" BRAND should be
specified on your orders.
Supplied direct or through
wholesalers.



WHY NOT A WINDOW SHOW? We will send
you plenty of ad. matter if you send us a postcard.

LYSOL, LTD.

STRATFORD, LONDON, E.15.

Kay's Compound Essence of Linseed, "LINSEED COMPOUND"

(Regd. Trade Mark).

For COUGHS and COLDS.

On the P.A.T.A. List.

"KAY'S TIC PILLS." "MOUNTAIN FLAX PILLS"

Linum Catharticum (Regd. Trade Mark).

"COAGULINE" & "TENASITINE" CEMENTS.

"ORBITE"

Banding Material for Fruit Trees.

BIRDLIMES, RATLIMES, and FLYGUMS.

Sole Makers :—

**KAY BROTHERS LTD.,
STOCKPORT.**

SPIRIT STOCK BOOK.

To keep records of
receipt and use, as
required in the Order,
to obtain repayment
of Duty.

Post Free,
3/-

JAMES TOWNSEND & SONS,
EXETER and LONDON.

**W. HITCHINS
& CO., LTD.**

**WOOD
WORKERS,
78 High St.
South,
EAST HAM,
E.6.**

Telephone :
475 EAST HAM.

Postal Tubes
fitted with
patent clip
as illustration.



TIDMAN'S SEA SALT

GOOD PROFITS. PROTECTED BY P.A.T.A.

Two Gross "PENNY" Packets sold for 30/- show over
50% Profit on purchase price 21/-, less 2½% delivered.

PRICE LIST.

	Advertised Price Per doz.	Minimum Retail. Per doz.	Wholesale Per gross.
"PENNY" PACKETS (12 in box)	1/6	1/3	10/6
Twopenny Packets (12 in box) ...	2/-	2/-	19/-
Boxes, about 1½ lb. ...	4d.	4d.	3/4
" " 3½ " ...	8d.	8d.	6/8
" " 7 " ...	1/2	1/2	11/6
" " 14 " ...	2/-	2/-	20/-

Four 7-lb. Boxes CARRIAGE PAID for 4/-

Six 7-lb. Boxes CARRIAGE PAID at 11/6 per doz.

Assorted Orders to value of 10/-, CARRIAGE PAID, any of
above sizes.

No stock to hold		Each.	Each.	Each. 1
{	Bags of 28 lb. ...	3/6	3/6	3/-
"	" 56 " ...	6/6	6/6	5/6
"	" 1 cwt. ...	12/-	12/-	10/-

Carriage Paid.

2½% Discount for Cash on all orders of 20/- and upwards.
Packing Cases extra and returnable. Half value allowed
if not returned.

TIDMAN & SON, Ltd., London, E. (Members of P.A.T.A.)

ESTABLISHED 1836.
THE ORIGINAL
RICHMOND'S

LANCASHIRE
Condition & Worm Powder for Horses

2/- retail; 18/- doz. wholesale
3/6 " 31/6 " "
5/- " 45/- " "

Condition & Distemper Powder for Dogs

7½d. retail; 5/- doz. wholesale
1/3 " 10/- " "
2/6 " 20/- " "

Cleansing & Felson Drink for Cattle

1/6 retail; 13/- doz. wholesale

Stocked by all Wholesale Chemists, or direct from

JAS. H. RICHMOND

Veterinary Chemist,
Sole Proprietor: E. STALEY, M.P.S. George St., PATRICROFT

Late of Chorley, Lancs.



**The Right Weapon
for the RAT WAR**

Mr. E. TOMS, Resolven, writes:—
" 'Rodine' is far superior to any rat poison I have ever had. It soon does the trick and sweeps the rats clean away, leaving no trace of them."

Mr. TATLOW, Pasture Farm, Ashbourne, writes:—"Please forward another 2/- tin of 'Rodine' for destroying rats. I believe it to be the finest thing obtainable for the purpose."

Are you the sole agent for 'Rodine'?

It yields nearly 100% Profit on P.A.T.A.

Write for Particulars to the SOLE MAKER—

HARLEY, Manufacturing Chemist, PERTH, SCOTLAND.

THE LABORATORIES &
GENERAL OFFICES of
DANYSZ VIRUS, LTD.

*Specialists in Preparations
for the destruction of*

RATS AND MICE

and other vermin, have been removed from 52 Leadenhall Street, E.C. 3, to larger and more convenient premises at

**325 Borough High St.,
LONDON, S.E. 1.**

(Near Elephant and Castle Tube Station—
Trams and Buses pass the Door)

Proprietors of the well-known **DANYSZ VIRUS**, the bacteriological preparation introduced by us 15 years ago. Prices and trade terms as before. On P.A.T.A. List.

HALLER'S EXTRACT OF SQUILL (*Scilla maritima*) the non-bacterial preparation prominently referred to in recent official publications by the Board of Agriculture and Fisheries. For use over large areas. Special terms, according to quantities required, on receipt of information as to extent of area, etc. Trade terms on application.

DANZO RAT KILLER, containing Haller's Extract of Squill in a convenient form, in Tins—½ gallon 10/-; 1 gallon 18/-; 5 galls. 80/-. Making, mixed with 10 lb. of flaked oats or stale bread to the gallon, respectively 10 lb., 20 lb. and 100 lb. of bait. Non-bacterial. Harmless to other animals. Usual trade terms. Circulars, handbills, &c., on application.

DANYSZ VIRUS, LTD.

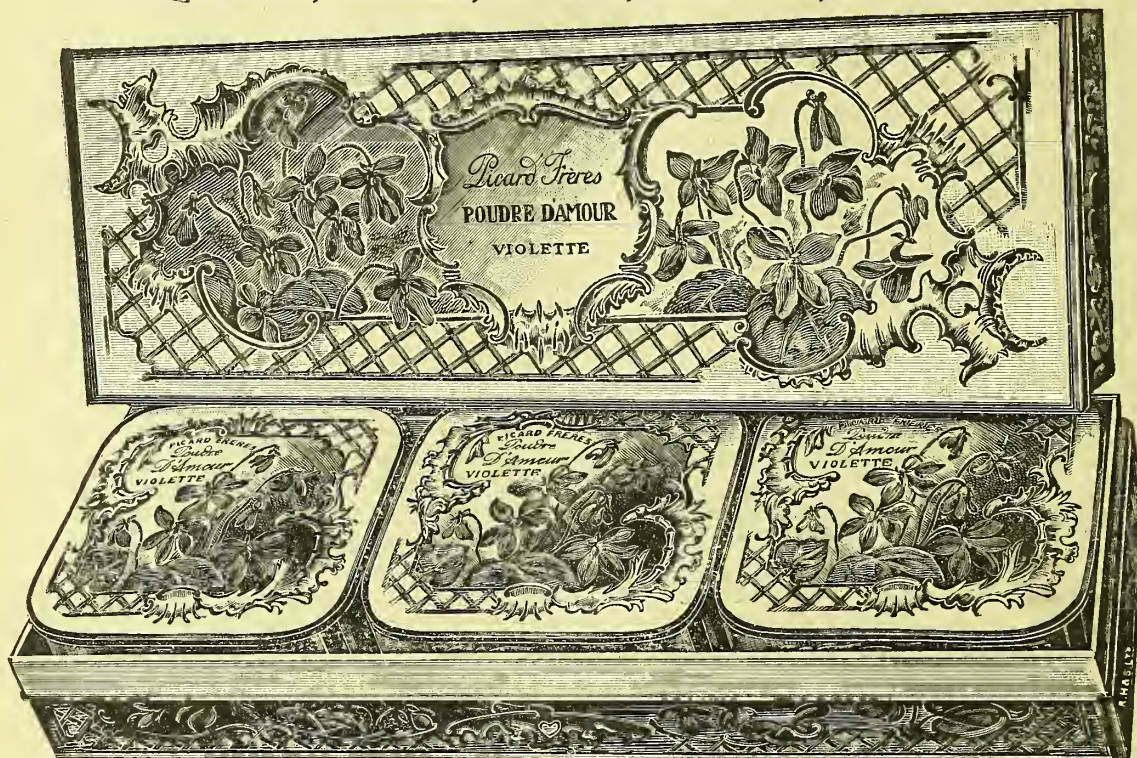
325 BOROUGH HIGH ST., LONDON, S.E. 1

Telephone: Hop 2717.

Telegrams: "Virudana, Sedist, London."

PICARD FRÈRES' POUDRE D'AMOUR.—Floral Series.

CARNATION, GIROFLÉE, VIOLETTE, SWEET PEA, or ROYAL.



Packed three boxes in each outer, and labelled in colours, each odour being represented by the flowers, as above illustration of the Violette, 12/3 doz. Special quotations for quantities.
When ordering kindly state Poudre d'Amour, Floral Series.



PICARD FRÈRES' BRILLANTINE

(About 4½ oz.)

No. 4658

ASSORTED PERFUMES

26/- PER
DOZ.



The Shaving Stick with the Creamy Lather.
Enclosed in a handsome nickelled case.
11/- per doz. ; 129/- per gross.

Subject to 2½ per cent. Discount.

A copy of our Monthly Illustrated List will be sent on application.

R. HOVENDEN & SONS, LTD.

29, 30, 31, 32 & 33 BERNERS ST., OXFORD ST., W. 1. Tel. No.: Museum 2810 (3 lines).
And 89, 91, 93 & 95 CITY RD., FINSBURY, E.C. 1. Tel. No.: 6260 London Wall (2 lines).

Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N.

LONDON.

By Royal Warrant of Appointment
to H.M. The King.



By Royal Warrant of Appointment
to H.M. The King.

Only
ONE
Address.

DAY & SONS, ESTABLISHED 1840.
CREWE. LTD. (CREWE)
HORSE, CATTLE, SHEEP & DOG MEDICINES.

Only
ONE
Address.

LARGEST SALE IN THE WORLD.



DAY'S BLACK DRINK

Cures Colic or Gripes in Horses or Cattle, Scour and Weakness in all Young Stock, Blown Cattle and Sheep, Debility, Chills and Low Condition in all Stock.

Price 1/8 per bottle

DAY'S HUSKOLEIN

Almost infallible for Tape Worms in Lambs and other Animals; for Husk or Hoose in Calves, Lambs, &c. A speciality for Worms in Horses and Colts.

6/6 per bottle

DAY'S ZOMO-SAL.

For Blood Disorders, Humours, General Weakness, Surfeits, Indigestion, Sterility, &c., in Horses and Beasts. Promotes Growth of Bone. Makes animals "fit" for Show or Sale.

In Canisters at 7/6, 20/-, and 40/-

DAY'S RED DRINK

OR COW DRENCH.

For Costiveness, Loss of Cud, Indigestion, Garget, Colds, Fever, Hidebound, &c., in Cattle. Prepares Cows for Calving, Prevents Milk Fever, and cures Bad Cleansing.

12/- per doz. packets.

The Ewe Drench for Ewes, 3/6 per doz.

DAY'S OILS

(THE PURIFIED DRIFFIELD OILS)

Heal all Wounds in Horses, Cattle, and Sheep, Sore Teats and Swollen Udders in Cows and Ewes. For Anointing in difficult Lambing or Calving.

2/6 and 6/- per bottle.

DAY'S WHITE OILS.

A Safe Embrocation for Sprains, Swellings, Windgalls, Sprung Sinews, Rheumatism, Sore Throat, Weak Joints, &c.

2/6 and 6/- per bottle.



DAY & SONS' "ORIGINAL" MEDICINE CHESTS

Price £1 4s., £2 4s., and £5. Carriage Paid.

Arranged for Horses, Cattle and Sheep; Horses only; or to suit any class of stock.

WHEN ORDERING PLEASE STATE REQUIREMENTS.

The Chest illustrated is similar to that at £5 and £2 4s.
GREAT SPECIALITIES.

N.B.—The above prices are now advanced. Preparations 15 %; Medicine Chests to £1 8s., £2 12s. and £5 respectively.

ONLY GENUINE FROM

DAY & SONS, CREWE, LTD., CREWE, England

LIBERAL TERMS FOR FOREIGN BUYERS.

MONSANTO

CHEMICAL WORKS,
ST. LOUIS, MO.,
U. S. A.

Salol

Aspirin

Phenolphthalein

Salicylic Acid

Chloral Hydrate

Salicylate of Soda

SACCHARIN

Vanillin

Acetanilid

Phenacetin

Coumarin

Glycerophosphates of

Calcium (pure),
Sodium (pure crystals and powdered),
Sodium (Solution 75 %), Iron,
Potassium 75 %,
Manganese, Magnesium, &c.

Chloramine T

Dichloramine T

Chlorocosane

Sole Joint Agents

MONSANTO

British Empire and Europe

F.W.BERK & CO., Ltd.

1 Fenchurch Avenue, E.C. 3

and

GILL & DUFFUS,

40 Eastcheap, E.C.3



THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, MAY 10, 1919.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after first post on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done.

PROVIDED THE MONEY IS TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C.4. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 2617 Central (3 lines). Telegraphic Address: "Chemica, Cannon, London." (Three words counted as two.)

EARLIER CLOSING FOR PRESS.

WILL intending Advertisers please note that until further notice all Advertisements for THE CHEMIST AND DRUGGIST SUPPLEMENT must be in the Publisher's hands not later than

FIRST POST THURSDAY MORNING,

to be available for the issue published in that particular week. Owing to restricted postal deliveries it is advisable to *post* all communications on the Tuesday preceding the date of issue. Advertisements received after the time indicated will be inserted in the following week's issue.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of **SALE, PURCHASE, and VALUATION.**

1.—LONDON, N. (Aldon Road).—Brisk Retail Business; returns, present rate, over £2,000 at good prices; well-appointed shop, and comfortable residence; vendor's own property; terms to be arranged equitably.

2.—WEST END (10 Minutes from).—Dispensing and Retail Business; vendor retiring; returns between £2,000 and £3,000; net profit over £700; well-appointed shop and large residence; new lease; price £1,500 or valuation terms.

3.—PADDINGTON.—Old-established Business; Dispensing and Retail; unique position; returns upwards of £2,500; profits good; large residence with private entrance; price about £1,000.

4.—LONDON (Northern Suburb).—Good middle-class Business, chiefly ready money; returns upwards of £2,000; attractive well-fitted shop; capital residence; vendor's own property; price about £1,000.

5.—HYDE PARK (Near).—Very old-established Business; present hands 50 years, now retiring; returns £1,500, present rate; scope for development under energetic management; price £600.

6.—LONDON, N.—Ready-money Business; returns, present rate, £2,000; net profit 25 per cent.; rent £60; new lease; price £850.

7.—LONDON, W. (Busy Shopping Thoroughfare).—Old-established Business; Retail and Dispensing; returns between £600 and £700 at full prices, plus N.H.I. Dispensing; excellent opening for modern trading; well-fitted shop and good residence; price required £500.

8.—KENT (Distant Suburb).—Dispensing and Retail Business; corner position in main thoroughfare; returns exceed £3,000; net profit between £850 and £900; large shop and comfortable residence; price about £1,900.

9.—MIDLANDS (Large Manufacturing Town).—Old-established Business; Retail and Wholesale in packed goods; gross receipts exceed £8,000, and during the past three years the average gross profit amounted to £2,031; the premises are held on long lease at a rental of £60; price about £3,000; a banker's reference will facilitate business.

10.—SEAPORT TOWN.—Wholesale Business, comprising Surgical Instruments and Druggists' Sundries; gross receipts last year exceeded £11,000, and the average net profit for the past three years, after allowing for depreciation and bad debts, £1,042; further particulars will be furnished on receipt of a banker's reference.

11.—KENT COAST (Popular Health Resort).—Established Business; Retail and Dispensing; returns £900; rent £45, which includes comfortable residence; price £550.

12.—LINGS (Busy Market Town).—Mixed Business, with good Optical connection; returns last year £3,400; average net profit for 3 years £1,147 yearly; commodious premises; vendor's own property; terms, valuation of stock and fixtures, plus premium for goodwill.

13.—WESTERN COUNTY (Health Resort).—Good-class Business for Disposal through death; returns between £1,200 and £1,300, with scope for extension; well-fitted shop and large residence; rent £55; for an immediate sale less than the value of stock and fixtures will be accepted.

14.—STAFFS.—Ready-money Retail, with N.H.I. Dispensing; established many years; returns last year £2,456; full investigation invited; rent £30; offer wanted.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.
ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—EAST COAST.—Good-class Retail, Dispensing and Photographic, in select seaside resort; returns nearly £1,400; increasing net profit £422; pre-war returns £1,800; good house and Pharmacy; price £100 and valuation; in all about £850; personally recommended.

2.—BIRMINGHAM.—Working-class Cash Retail; returns average £40 weekly; good profits; plenty of scope; low rent; price for quick sale only £500 cash.

3.—WESTERN COUNTY (Inland Health Resort).—First-class Dispensing and Light Retail for Sale through death; returns about £1,250; has done much more and can again; good residence; low rent; handsome Pharmacy, heavily stocked; price £950.

4.—KENT.—Genuine Herbal and Drug Stores for immediate Disposal in large fashionable town; returns £12 to £14 a week; net profit £5 to £6 weekly; low rent; long lease; small house; price £250; suit unqualified.

5.—LONDON, S.E.—Sound Cash Retail and Prescribing, with N.H.I., in working-class district; returns under Manager £2,000; net profit £600; eight-roomed house; low rent; well stocked; price for quick sale £600 cash.

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